

M-32



Department of Energy

Ohio Field Office
West Valley Area Office
P.O. Box 191
West Valley, NY 14171

February 13, 1996

Mr. Gary C. Comfort
Headquarters
U.S. Nuclear Regulatory Commission
Washington, DC 20555

SUBJECT: Revision of Nuclear Regulatory Commission (NRC) Notebook Contents

Dear Mr. Comfort:

The purpose of this memorandum is to transmit updated engineering material to the NRC for inclusion in the Vitrification Facility NRC Readiness Notebook(s).

Enclosures include one transmittal schedule, two drawing lists and drawings, and fifteen (15) revised system descriptions.

Replace the drawing lists, drawings, and systems descriptions in the sequence indicated by your notebook's Table of Contents. Pay particular attention to the drawing numbers and number of sheets per drawing.

Notebook volumes should provide a clear, current image of the Vitrification Facility, its systems, and individual components. Drawings reflect the as-built condition of the solidification facilities. System descriptions have been updated with testing results and should not change significantly after this transmittal. Further revisions to drawings and system descriptions will be forwarded if warranted by the kind and nature of the changes.

Place this letter and attached transmittal schedule in the "Letters" section of Volume I.

If there are any questions regarding the NRC notebooks or if you no longer want to receive updates, please contact E. Martinez at (716) 942-2315.

Sincerely,

T. J. Rowland, Director
West Valley Area Office

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except: File Central 1 1
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- Enclosures:
- A) Transmittal Schedule
 - B) P&ID Drawing List and Drawings
 - C) General Arrangement Drawing List and Drawings
 - D) High-Level Waste Solidification Facilities Description (FD-001)
 - E) Waste Header System Description (System 63G)
 - F) Off-Gas and Vessel Vent System Description (System 63H)
 - G) Canister Decontamination System Description (System 63J)
 - H) In-Cell Remote Handling, Maintenance, and Viewing System Description (System 63K)
 - I) Canister Welding System Description (System 63L)
 - J) VF Electrical Power Distribution System Description (System 63ED)
 - K) Diesel Engine Fuel Oil and Exhaust System Description (System 63FO)
 - L) VF Potable Water System Description (System 63PW)
 - M) VF Utility Water System Description (System 63UW)
 - N) Vitrification Facility Drains System Description (System 63WW)
 - O) Ex-Cell Off-Gas System Description (System 64)
 - P) VF Closed Loop Cooling Water System Description (System 66)
 - Q) Vitrification Facility HVAC System Description (System 67)
 - R) VF Sampling System Description (System 69A)

cc: T. W. McIntosh, DOE-HQ, EM-323, 351/TREV, w/enc.
✓ J. Furia, NRC, Region 1, w/enc.
F. W. Damerow, WVNS, WV B1B, w/o enc.

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EJM/cch

Vitrification Facility NRC Readiness Notebook Transmittal Schedule

SECTION	TITLE	ORG. DATE	TRANS DATE	CURRENT
		ANTICIPATED	OF CURRENT REV	REVISION
1.0	Design Information			
1.1	Process Flow Diagrams			
	Cold Chemical System Vitrification	7/16/93 6/30/94	7/16/93 1/30/95	
1.2	Process & Instrumentation Diagrams	On-Going	12/29/95	
1.3	General Arrangement Drawings			
	Vitrification Facility Tank Farm	On-Going	12/29/95	
	High Level Waste Interim Storage (CPC & EDR)	On-Going	6/30/95	
	Ex-Cell Off-Gas Areas of the 01-14 Building	On-Going	12/29/95	
1.4	System Descriptions			
1.4.1	High-Level Waste Vitrification Facilities Description	1/16/94	12/29/95	3
1.4.2	55 - Sludge Mobilization and Transfer	12/8/94	1/17/95	0
1.4.3	63G - Waste Header	7/16/93	12/29/95	2
1.4.4	63H - In-Cell Off-Gas and Vessel Vent	7/16/93	12/29/95	4
1.4.5	63I - Vitrification Main Process	12/15/94	6/30/95	1
1.4.6	63J - Canister Decontamination	1/16/94	12/29/95	3
1.4.7	63K - In-Cell Remote Handling, Maintenance and Viewing	12/31/94	12/29/95	2
1.4.8	63L - Canister Welding	6/15/94	12/29/95	4
1.4.9	63M - Vitrification Load In & Load Out	9/30/94	5/31/95	2
1.4.10	63P - Vitrification Process Chemistry	4/15/95	5/31/95	0
1.4.11	63CW - Vitrification Cooling Tower Water	10/31/94	9/21/95	2
1.4.12	63F - Cell Walls and Ex-Cell Arrangement	10/26/94	5/31/95	2
1.4.13	63DW - Vitrification Demineralized Water	11/1/93	2/26/95	1
1.4.14	63ED - Vitrification Electric Power Distribution	4/30/94	12/29/95	3
1.4.15	63FO - Fuel Oil	9/30/94	12/29/95	2
1.4.16	63FP - Fire Detection and Protection	11/30/94	2/26/95	1
1.4.17	63IA - Vitrification Instrument Air	12/1/93	10/26/95	3
1.4.18	63PW - Vitrification Potable Water	12/12/94	12/29/95	3
1.4.19	63SC - Vitrification Steam and Condensate	1/31/94	9/21/95	2
1.4.20	63UA - Vitrification Utility Air	12/1/93	9/21/95	2
1.4.21	63UW - Vitrification Utility Water	11/1/93	12/29/95	2
1.4.22	63VH - Vitrification Vent Header	Canceled		
1.4.23	63WW - Vitrification Drains	8/31/94	12/29/95	2
1.4.24	64 - Vitrification Ex-Cell Off-Gas	1/31/94	12/29/95	2
1.4.25	65 - Vitrification Cold Chemical	11/1/93	6/30/95	1
1.4.26	66 - Vitrification Closed Loop Cooling Water	11/1/93	12/29/95	2
1.4.27	67 - Vitrification HVAC	12/10/94	12/29/95	4
1.4.28	68 - High-Level Waste Interim Storage	4/13/95	7/28/95	1
1.4.29	69A - Vitrification Sampling	3/10/95	12/29/95	2
1.4.30	69B - Vitrification Sample Transfer	1/16/94	1/6/95	1
1.4.31	90 - Analytical and Environmental Laboratory	Canceled		
1.4.32	200A/B - Instrumentation Hardware and Software	11/30/94	5/31/95	2
1.4.33	Combined with 200A	Combined 200A		
2.0	Operational Readiness Review (ORR)			
2.1	ORR Plan of Action	7/30/93	7/30/93	
2.2	ORR Tree			
3.0	Readiness Logic			
3.1	Integrated Vitrification Logic Schedule	On-Going	7/29/94	
4.0	Testing			
4.1	WVDP CTS Conversion to VF Test Program Plan (TPL-63-001)	7/30/93	10/26/95	4
4.2	Overall Test Schedule	On-Going	4/26/95	
4.3	Integrated Test Plan	Canceled		
4.4	Performance Tests			
4.4.1	Specifications	Moved to SDs	3/30/94	
4.4.2	Reports	Per Test Plan		

Note: Shaded sections have been previously transmitted or are new revisions included with this transmittal.

SPECIAL LIST: 1281L002 - P&IDs

REVISIONS CURRENT AS OF: 12-18-95 9.00 am

Attachment B

DRAWING NBR	SHEET	REV	TITLE
900-D-2318	001	011	WASTE MOBIL. PUMP P&ID 8D-1-M6
900-D-2318	002	010	WASTE MOBIL PUMP P&ID 8D-1-M4
900-D-2318	003	008	WASTE MOBIL. PUMP P&ID 8D-1-M3
900-D-2318	004	009	WASTE MOBIL PUMP P&ID 8D-1-M2
900-D-2318	005	008	WASTE MOBIL PUMP P&ID 8D-1-M1
900-D-2318	006	009	WASTE MOBIL PUMP P&ID 8D-2-M6
900-D-2318	007	009	WASTE MOBIL PUMP P&ID 8D-2-M5
900-D-2318	008	010	WASTE MOBIL PUMP P&ID 8D-2-M3
900-D-2318	009	009	WASTE MOBIL PUMP P&ID 8D-2-M2
900-D-2318	010	011	WASTE MOBIL PUMP P&ID 8D-2-M1
900-D-2731	001	007	VF STACK SAMPLING SYSTEM P AND ID
900-D-2803	001	001	COLD CHEMICAL BUILDING H&V AIR FLOW DIAGRAM AND P&ID
900-D-4072	001	000	WTF INTERIM CHEM. & SLUDGE WASH WATER ADD. SYS P&ID
900-D-4525	001	003	WTF INTERIM CHEM & SLUDGE WASH WATER ADDITION SYS P&ID
900-E-705	002	034	CTS CONCENTRATOR FEED MAKUP TK. 63 V001 P&ID
900-E-705	003	022	CTS MELTER FEED HOLD TK 63 V011 P&ID
900-E-705	004	018	CTS WASTE HEADER V-045 VIT. CELL P&ID
900-E-705	005	017	CTS - ADS SAMPLE PUMP & P&ID
900-E-705	006	018	CTS FHT ADS PUMP 63G011 P&ID
900-E-705	007	014	CTS INTERNAL MELTER THERMOCOUPLES
900-E-705	008	016	CTS MELTER COOLING SYSTEM
900-E-705	009	027	CTS MELTER PNEUMATIC INSTRUMENTATION
900-E-705	010	018	CTS MELTER AND HEATER POWER SUPPLY AND CONTROLS
900-E-705	011	021	SAMPLER FOR V001 & V011 PROCESS & INSTR. DIA.
900-E-705	012	001	CTS TURNABLE

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DRAWING NBR	SHEET	REV	TITLE
900-E-705	014	019	CTS PRIMARY SCRUBBER SCRUB SECTION
900-E-705	015	016	CTS PRIMARY SCRUBBER RECEIVER TANK
900-E-705	016	008	MISC ALARMS AND INTERFACES
900-E-705	019	019	CTS VESSEL VENT SYSTEM
900-E-705	01A	009	CTS ABB & LEGEND PROCESS & INSTRUM DIA
900-E-705	01B	006	JET CONTROL
900-E-705	01C	006	JET CONTROL
900-E-705	01D	006	MFHT BUBBLER CONTROL
900-E-705	01E	006	CFMT BUBBLER CONTROL
900-E-705	01F	002	INDEX VIT & 01/14
900-E-705	021	014	CTS MELT OFF GAS SYS PREHEATER & HEMES P&ID
900-E-705	022	021	CTS VESSEL OFF GAS FILTERS & HEATERS P&ID
900-E-705	023	019	CANISTER DECONTAMINATION TANK 63-V-044 P&ID
900-E-705	023A	003	P&ID CANISTER DECONTAMINATION TANK 63-V-044
900-E-705	024	015	CTS-MAINTENANCE & CAPPING STATION P&ID
900-E-705	025	008	EX-CELL VENT HEADER P&ID
900-E-705	02A	002	P&ID CTS CONCENTRATOR FEED MAKE-UP TANK 63-V-001
900-E-705	03A	001	P&ID MELTER FEED HOLD TANK 63-V-011
903-D-013	001	008	P&ID STS UTILITY WATER SYSTEM
903-D-014	001	017	P&ID STS UTILITY & INSTRUMENT AIR
903-D-014	002	012	STS P&ID (V&S BLDG) UTILITY & INST. AIR
903-D-016	001	017	STS P&ID FILTRATION & COOLING SECTION
903-D-017	001	012	STS P&ID ION EXCHANGE SECTION SHEET 1
903-D-018	001	012	STS P&ID ION EXCHANGE SECTION SHEET 2
903-D-019	001	013	STS P&ID FINAL FILTRATION & STORAGE

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DRAWING NBR	SHEET	REV	TITLE
903-D-020	001	011	STS P&ID ZEOLITE FILL & SLUICE SECTION
903-D-021	001	009	STS P&ID VENTING/CHILLER SECTION
904-D-011	001	021	P&ID SLUDGE MOBILIZATION SYS. 8Q-4PIT
904-D-012	001	018	P&ID SLUDGE MOBILIZATION SYSTEM 8Q-1 PIT
904-D-013	001	022	P&ID SLUDGE MOBILIZATION SYSTEM 8Q-2 PIT
904-D-014	001	015	P&ID SLUDGE MOBILIZATION SYSTEM 8Q-5 PIT
904-D-015	001	016	P&ID SLUDGE MOBILIZATION SYS UTILITY WATER/CHEMICAL SYSTEM AND SEAL WATER SYSTEMS
904-D-016	001	009	P&ID SLUDGE MOBILIZATION SYSTEM UTILITY AIR SYSTEM
905-D-010	001	004	VF SHIELDING GAS & ARGON GAS SYSTEM P&ID
905-D-011	001	012	P&ID VITRIFICATION DRAINAGE SYSTEM HIGH LEVEL
905-D-015	001	030	P&ID COLD CHEMICAL PREPARATION & FEED SYSTEM
905-D-016	001	027	P&ID COLD CHEMICAL PREPARATION & FEED SYSTEM
905-D-017	001	027	P&ID COLD CHEMICAL PREPARATION & FEED SYSTEM
905-D-018	001	016	P&ID COLD CHEMICAL PREPARATION & FEED SYSTEM
905-D-019	001	014	P&ID COLD CHEMICAL STEAM & CONDENSATE SYSTEM
905-D-020	001	015	P&ID COLD CHEMICAL UTILITY & INSTRUMENT AIR
905-D-021	001	011	P&ID COLD CHEMICAL WATER SYSTEMS
905-D-022	001	006	P&ID COLD CHEMICAL ACID & CAUSTIC SYSTEMS
905-D-023	001	021	P&ID DIESEL FUEL OIL TRANSFER SYSTEM
905-D-024	001	008	P&ID COLD CHEMICAL FIRE PROTECTION
905-D-025	001	005	P&ID SECONDARY FILTER, DIESEL GEN & CRANE MAINTENANCE ROOM
905-D-026	001	003	P&ID VITRIFICATION FACILITY UTILITY WATER SYSTEM
905-D-027	001	004	P&ID VITRIFICATION FACILITY NON RACK COLD CHEMICAL DECON SYSTEM
905-D-028	001	004	P&ID VITRIFICATION FACILITY STEAM SYSTEM
905-D-029	001	019	P&ID VITRIFICATION FACILITY INSTRUMENT & UTILITY AIR SYS

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DRAWING NBR	SHEET	REV	TITLE
905-D-044	001	007	VF SFR & CMR HIGH PRESSURE AIR SYSTEM P&ID
905-D-045	001	010	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 3W2-1A
905-D-045	002	009	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 3E8-7A
905-D-045	003	008	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 2K7-6
905-D-045	004	011	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 2W6-5
905-D-045	005	009	P&ID VITRIFICATION FACILITY
905-D-045	006	005	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 2E9-8
905-D-045	007	005	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 2W3-2
905-D-045	008	004	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 3E9-7B
905-D-045	009	013	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 3W7
905-D-045	010	010	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 2N8
905-D-045	011	010	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 3W4
905-D-045	012	008	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 3W5 SHEET 1
905-D-045	013	010	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 3W6
905-D-045	014	008	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 3W3
905-D-045	015	009	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 3W1
905-D-045	016	006	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 2W4
905-D-045	017	010	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 2W5
905-D-045	018	013	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 3E10
905-D-045	019	004	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 2E10
905-D-045	020	009	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 3W5 SHEET 2
905-D-046	001	032	P&ID VITRIFICATION FACILITY UTILITY AIR SYSTEM
905-D-046	002	016	P&ID VITRIFICATION FACILITY INSTRUMENT AIR SYSTEM
905-D-046	003	022	P&ID VITRIFICATION FACILITY INSTRUMENT AIR SYSTEM
905-D-046	004	001	VOID PER ECM VF P&ID UTILITY AIR SYSTEM

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REV'SIONS CURRENT AS OF: 12-18-95 9.00 am

DRAWING NBR	SHEET	REV	TITLE
905-D-047	001	021	P&ID VITRIFICATION FACILITY STEAM SYSTEM
905-D-047	002	028	P&ID VITRIFICATION FACILITY CONDENSATE SYSTEM
905-D-047	003	022	P&ID VITRIFICATION FACILITY STEAM SYSTEM
905-D-048	001	014	P&ID VITRIFICATION FACILITY UTILITY WATER SYSTEM
905-D-048	002	017	P&ID VITRIFICATION FACILITY DEMINERALIZED WATER SYSTEM
905-D-049	001	005	P&ID VITRIFICATION FACILITY FIRE PROTECTION SYSTEMS
905-D-050	001	009	P&ID VITRIFICATION DRAINAGE SYSTEM LOW LEVEL
905-D-051	001	013	P&ID VITRIFICATION FACILITY POTABLE WATER SYSTEM
905-D-052	001	018	VITRIFICATION FACILITY CLOSED LOOP COOLING WATER SYSTEM P&ID
905-D-052	002	017	VITRIFICATION FACILITY CLOSED LOOP COOLING WATER SYSTEM P&ID
905-D-053	001	005	VOID PER ECM P&ID VITRIFICATION FACILITY NON RACK COLD CHEM. DECON & SLURRY SYSTEM
905-D-053	002	012	VOID PER ECM P&ID VITRIFICATION FACILITY NON RACK COLD CHEM DECON & SLURRY SYSTEM
905-D-054	001	021	P&ID VITRIFICATION FACILITY COOLING TOWER WATER SYSTEM
905-D-055	001	001	VOID PER ECM P&ID VITRIFICATION FACILITY OFF GAS CONDENSATE SYSTEM
905-D-056	001	007	VOID PER ECM P&ID VITRIFICATION FACILITY VENT HEADER SYSTEM
905-D-057	001	006	VITRIFICATION RES: ROOMS P&ID
905-D-058	001	009	PNEUMATIC SAMPLE TRANSFER SYSTEM P&ID
905-D-058	002	000	PNEUMATIC SAMPLE TRANSFER SYSTEM P&ID
905-D-450	001	008	HVAC AIR FLOW DIAGRAM VITRIFICATION FACILITY
905-D-451	001	011	HVAC AIR FLOW DIAGRAM & P&ID CONTROL ROOM
905-D-452	001	025	HVAC P&ID VITRIFICATION FACILITY
905-D-452	002	014	HVAC P&ID VITRIFICATION FACILITY
905-D-452	003	008	VS HVAC P&ID VITRIFICATION FACILITY
905-D-453	001	013	VITRIFICATION FACILITY HVAC CHILLED WATER SYSTEM P&ID SH 1
905-D-453	002	001	VITRIFICATION FACILITY HVAC CHILLED WATER SYSTEM P&ID SH 3

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DRAWING NBR	SHEET	REV	TITLE
905-D-454	001	015	VITRIFICATION FACILITY HVAC CHILLED WATER P&ID SH 2
905-E-045	021	006	P&ID VITRIFICATION FACILITY INSTRUMENT RACK 3wB
906-D-009	001	009	VF EX-CELL OFF-GAS MISCELLANEOUS UTILITIES P&ID
906-D-014	001	014	VF MELTER OFF-GAS P&ID MELTER EX CELL OFF GAS SYSTEM
906-D-015	001	010	VF MELTER OFF-GAS P&ID MELTER EX CELL OFF GAS SYSTEM
906-D-018	001	012	VF MELTER OFF-GAS HVAC AIR FLOW DIAGRAM & P&ID
906-D-019	001	001	VOID PER ECN VF MELTER OFF-GAS HVAC AIR FLOW DIAGRAM & P&ID
906-D-025	001	007	VF MELTER OFF-GAS P&ID INSTRUMENT RACK 01
906-D-026	001	009	VF MELTER OFF-GAS P&ID INSTRUMENT RACK 02
906-D-027	001	009	VF MELTER OFF-GAS P&ID INSTRUMENT RACK 02
906-D-028	001	008	VF MELTER OFF-GAS P&ID INSTRUMENT RACK 02
906-E-011	001	015	VF MELTER OFF-GAS P&ID MELTER EX CELL OFF GAS SYSTEM
906-E-012	001	017	VF MELTER OFF-GAS P&ID MELTER EX CELL OFF GAS SYSTEM
906-E-012	002	011	VF P&ID MELTER EX-CELL OFF-GAS SYS
906-E-013	001	015	VF MELTER OFF-GAS P&ID MELTER EX CELL OFF GAS SYSTEM
906-E-016	001	013	VF MELTER OFF-GAS P&ID INSTRUMENT AIR
906-E-017	001	011	VF P&ID OFF-GAS TRENCH
907-D-020	001	003	P&ID VF LOAD-IN BLDG UA, UW & DW SYSTEMS
907-D-021	001	001	P&ID VF LOAD-IN BLDG FIRE PROTECTION
907-D-022	001	003	P&ID VF LOAD-IN BLDG STEAM & CONDENSATE SYSTEM
907-D-023	001	003	P&ID VF LOAD-IN BLDG DRAINAGE SYSTEM
907-D-401	001	002	VF LOAD-IN BUILDING H&V AIR FLOW DIAGRAM AND P&ID

Total number of Drawings in this report 147

***** END OF REPORT *****

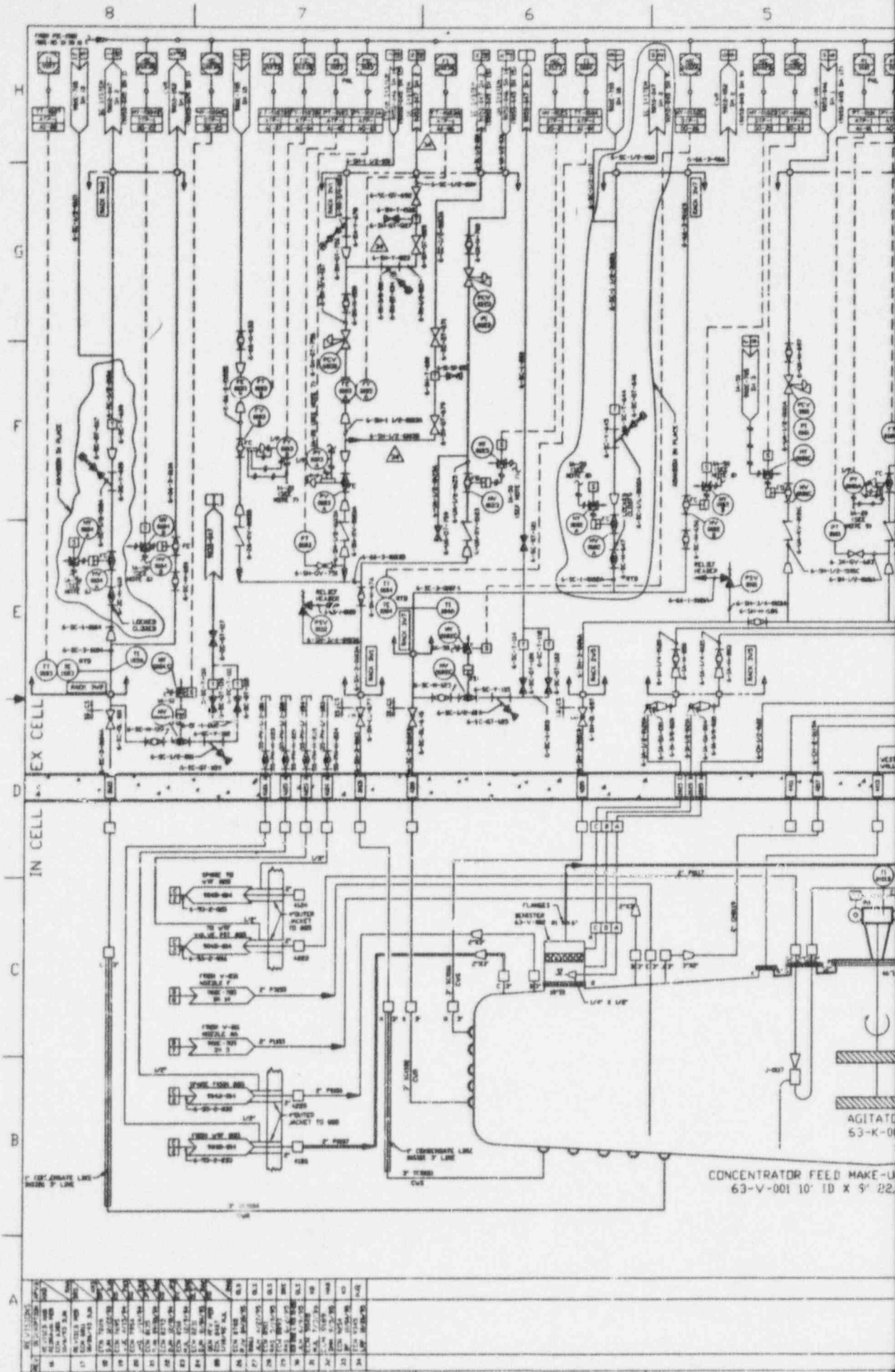
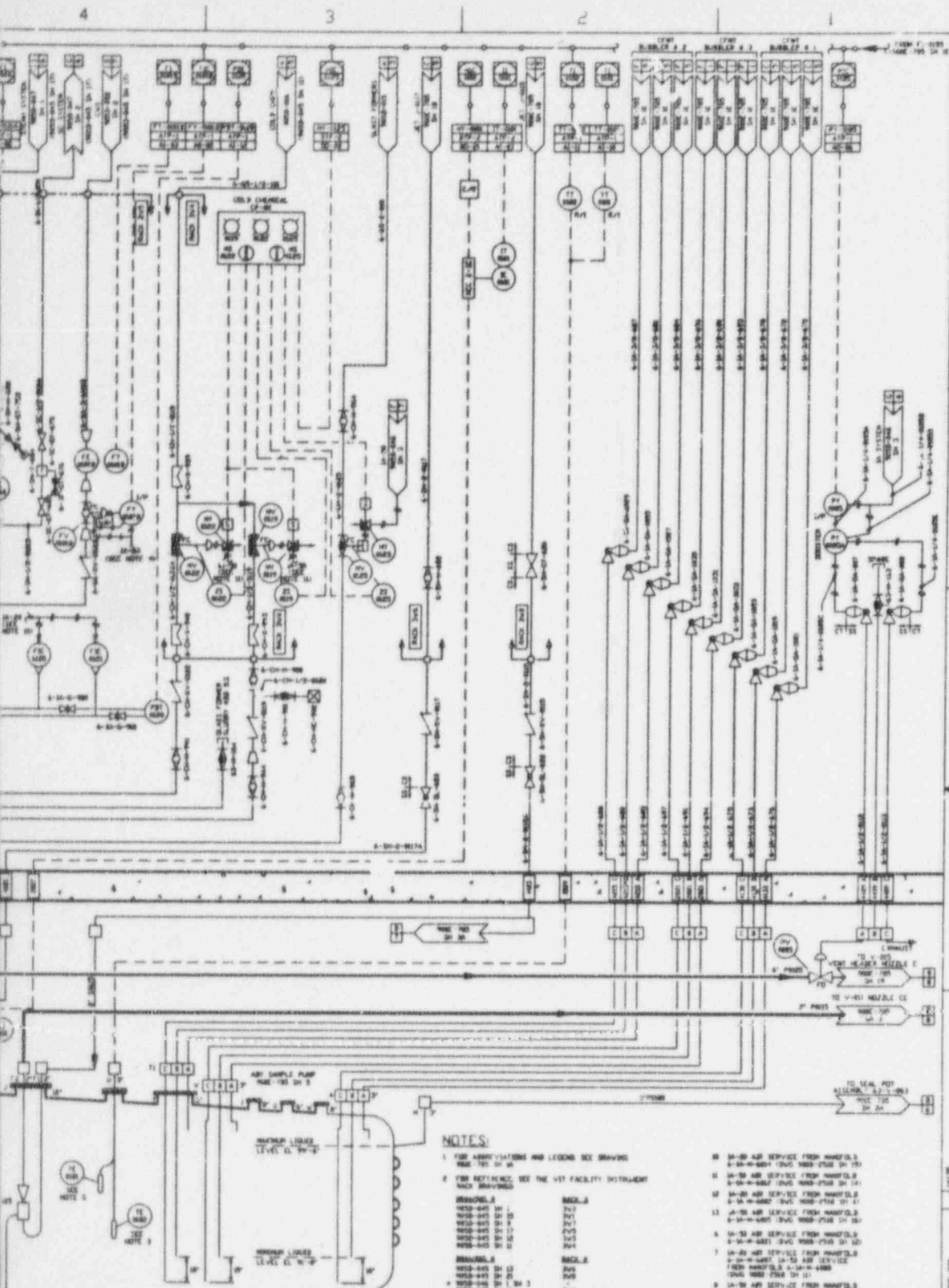


Table with 5 columns: NO., DESCRIPTION, SIZE, TYPE, STATUS. Contains equipment specifications for various units in the process.

CONCENTRATOR FEED MAKE-UP
63-V-001 10" ID X 5' 22"

AGITATOR
53-K-01



ANSTEC APERTURE CARD

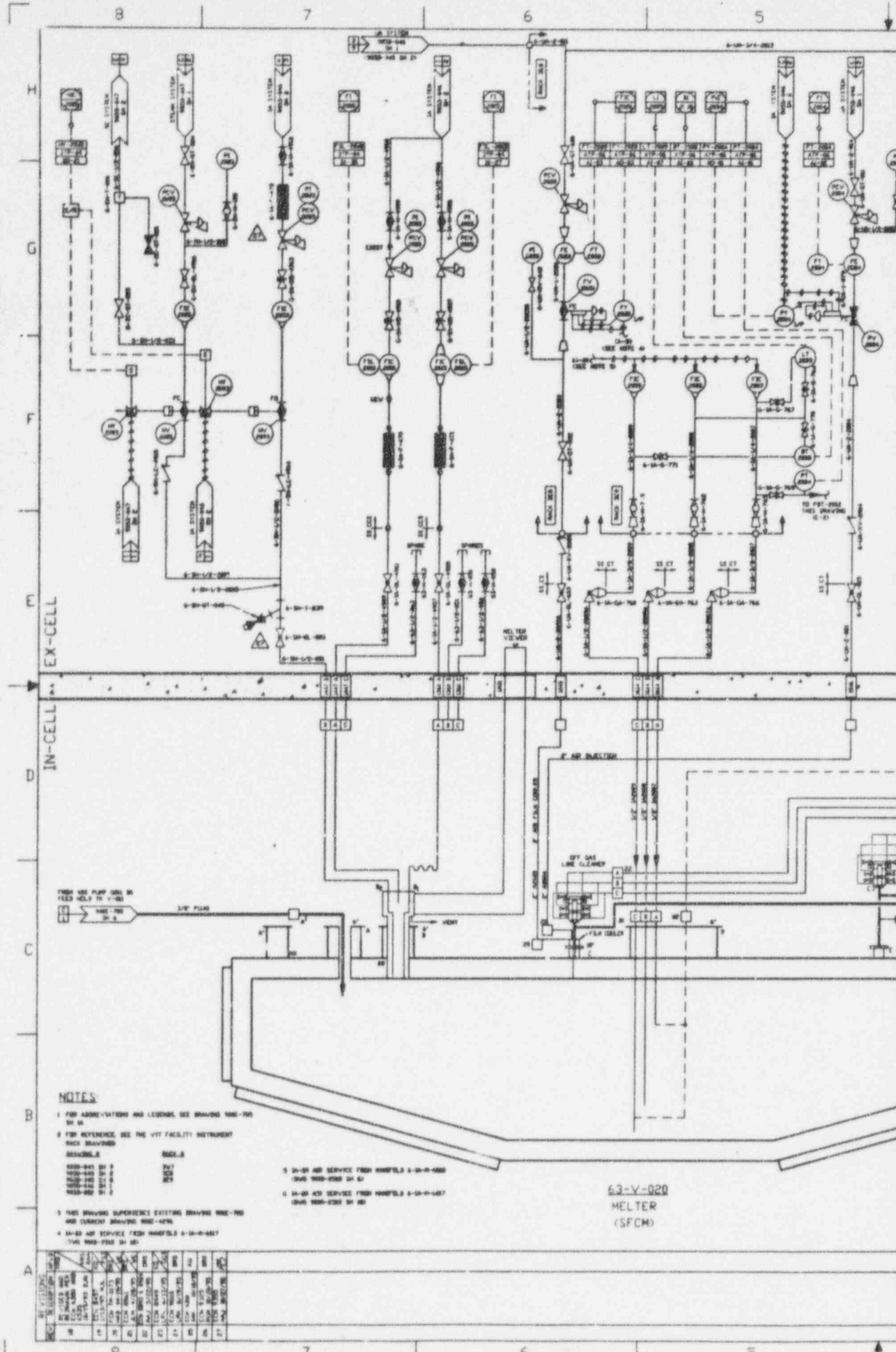
Also Available on Aperture Card

NOTES:

- FOR ASSUMPTIONS AND LEGENDS SEE DRAWING 63-U-001
- FOR REFERENCE SEE THE VET FACILITY INSTRUMENTATION DRAWINGS
- | MANIFOLD | SIZE |
|-----------------|-----------|
| MANIFOLD 5H 10 | 2" x 1/2" |
| MANIFOLD 5H 11 | 2" x 1/2" |
| MANIFOLD 5H 12 | 2" x 1/2" |
| MANIFOLD 5H 13 | 2" x 1/2" |
| MANIFOLD 5H 14 | 2" x 1/2" |
| MANIFOLD 5H 15 | 2" x 1/2" |
| MANIFOLD 5H 16 | 2" x 1/2" |
| MANIFOLD 5H 17 | 2" x 1/2" |
| MANIFOLD 5H 18 | 2" x 1/2" |
| MANIFOLD 5H 19 | 2" x 1/2" |
| MANIFOLD 5H 20 | 2" x 1/2" |
| MANIFOLD 5H 21 | 2" x 1/2" |
| MANIFOLD 5H 22 | 2" x 1/2" |
| MANIFOLD 5H 23 | 2" x 1/2" |
| MANIFOLD 5H 24 | 2" x 1/2" |
| MANIFOLD 5H 25 | 2" x 1/2" |
| MANIFOLD 5H 26 | 2" x 1/2" |
| MANIFOLD 5H 27 | 2" x 1/2" |
| MANIFOLD 5H 28 | 2" x 1/2" |
| MANIFOLD 5H 29 | 2" x 1/2" |
| MANIFOLD 5H 30 | 2" x 1/2" |
| MANIFOLD 5H 31 | 2" x 1/2" |
| MANIFOLD 5H 32 | 2" x 1/2" |
| MANIFOLD 5H 33 | 2" x 1/2" |
| MANIFOLD 5H 34 | 2" x 1/2" |
| MANIFOLD 5H 35 | 2" x 1/2" |
| MANIFOLD 5H 36 | 2" x 1/2" |
| MANIFOLD 5H 37 | 2" x 1/2" |
| MANIFOLD 5H 38 | 2" x 1/2" |
| MANIFOLD 5H 39 | 2" x 1/2" |
| MANIFOLD 5H 40 | 2" x 1/2" |
| MANIFOLD 5H 41 | 2" x 1/2" |
| MANIFOLD 5H 42 | 2" x 1/2" |
| MANIFOLD 5H 43 | 2" x 1/2" |
| MANIFOLD 5H 44 | 2" x 1/2" |
| MANIFOLD 5H 45 | 2" x 1/2" |
| MANIFOLD 5H 46 | 2" x 1/2" |
| MANIFOLD 5H 47 | 2" x 1/2" |
| MANIFOLD 5H 48 | 2" x 1/2" |
| MANIFOLD 5H 49 | 2" x 1/2" |
| MANIFOLD 5H 50 | 2" x 1/2" |
| MANIFOLD 5H 51 | 2" x 1/2" |
| MANIFOLD 5H 52 | 2" x 1/2" |
| MANIFOLD 5H 53 | 2" x 1/2" |
| MANIFOLD 5H 54 | 2" x 1/2" |
| MANIFOLD 5H 55 | 2" x 1/2" |
| MANIFOLD 5H 56 | 2" x 1/2" |
| MANIFOLD 5H 57 | 2" x 1/2" |
| MANIFOLD 5H 58 | 2" x 1/2" |
| MANIFOLD 5H 59 | 2" x 1/2" |
| MANIFOLD 5H 60 | 2" x 1/2" |
| MANIFOLD 5H 61 | 2" x 1/2" |
| MANIFOLD 5H 62 | 2" x 1/2" |
| MANIFOLD 5H 63 | 2" x 1/2" |
| MANIFOLD 5H 64 | 2" x 1/2" |
| MANIFOLD 5H 65 | 2" x 1/2" |
| MANIFOLD 5H 66 | 2" x 1/2" |
| MANIFOLD 5H 67 | 2" x 1/2" |
| MANIFOLD 5H 68 | 2" x 1/2" |
| MANIFOLD 5H 69 | 2" x 1/2" |
| MANIFOLD 5H 70 | 2" x 1/2" |
| MANIFOLD 5H 71 | 2" x 1/2" |
| MANIFOLD 5H 72 | 2" x 1/2" |
| MANIFOLD 5H 73 | 2" x 1/2" |
| MANIFOLD 5H 74 | 2" x 1/2" |
| MANIFOLD 5H 75 | 2" x 1/2" |
| MANIFOLD 5H 76 | 2" x 1/2" |
| MANIFOLD 5H 77 | 2" x 1/2" |
| MANIFOLD 5H 78 | 2" x 1/2" |
| MANIFOLD 5H 79 | 2" x 1/2" |
| MANIFOLD 5H 80 | 2" x 1/2" |
| MANIFOLD 5H 81 | 2" x 1/2" |
| MANIFOLD 5H 82 | 2" x 1/2" |
| MANIFOLD 5H 83 | 2" x 1/2" |
| MANIFOLD 5H 84 | 2" x 1/2" |
| MANIFOLD 5H 85 | 2" x 1/2" |
| MANIFOLD 5H 86 | 2" x 1/2" |
| MANIFOLD 5H 87 | 2" x 1/2" |
| MANIFOLD 5H 88 | 2" x 1/2" |
| MANIFOLD 5H 89 | 2" x 1/2" |
| MANIFOLD 5H 90 | 2" x 1/2" |
| MANIFOLD 5H 91 | 2" x 1/2" |
| MANIFOLD 5H 92 | 2" x 1/2" |
| MANIFOLD 5H 93 | 2" x 1/2" |
| MANIFOLD 5H 94 | 2" x 1/2" |
| MANIFOLD 5H 95 | 2" x 1/2" |
| MANIFOLD 5H 96 | 2" x 1/2" |
| MANIFOLD 5H 97 | 2" x 1/2" |
| MANIFOLD 5H 98 | 2" x 1/2" |
| MANIFOLD 5H 99 | 2" x 1/2" |
| MANIFOLD 5H 100 | 2" x 1/2" |
- TO 400 AND TO 400 ARE SEAL ELEMENTS
- THIS DRAWING SUPERSEDES EXISTING DRAWING 63-U-001 AND CURRENT DRAWING 63-U-001
- FOR INSTRUMENTATION INSTALLATION SEE INSTRUMENTATION INSTALLATION DETAILS 63-U-274

ITEM NO.	DESCRIPTION OR IDENTIFYING NO.	PART OF IDENTIFYING NO.	INTERNAL OR SPEC
PARTS LIST			
1	WEST VALLEY NUCLEAR SERVICES COLOR		
2	WEST VALLEY NUCLEAR SERVICES COLOR		
3	P&ID		
4	CTS. CONCENTRATOR FEED		
5	MAKE-UP TANK 63-U-001		
6	SCALE NONE		
7	REV NO 200E-70534		
8	DATE 10/1/68		
9	SHEET 2 OF 2		

9602210422-01

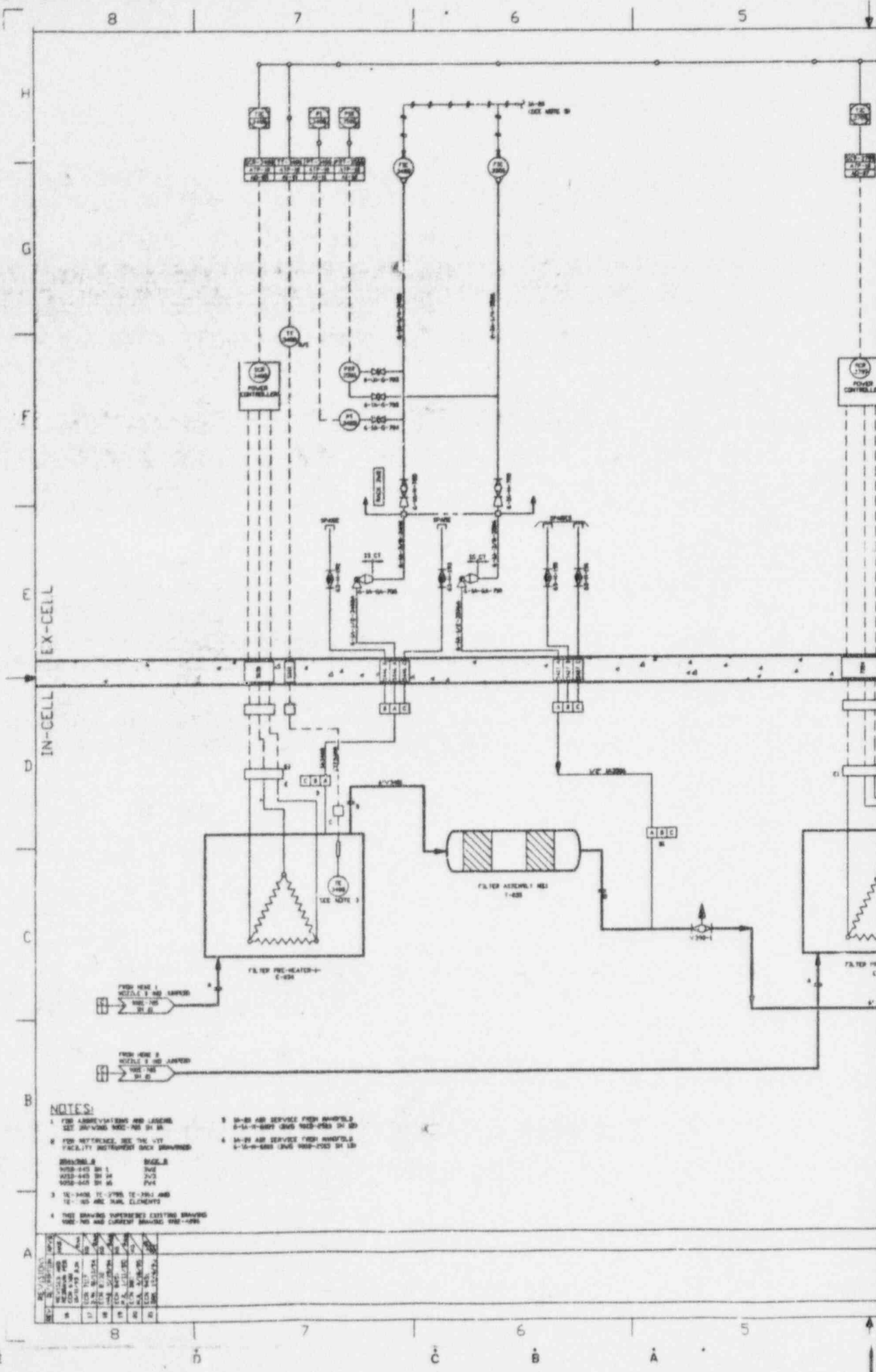


NOTES:

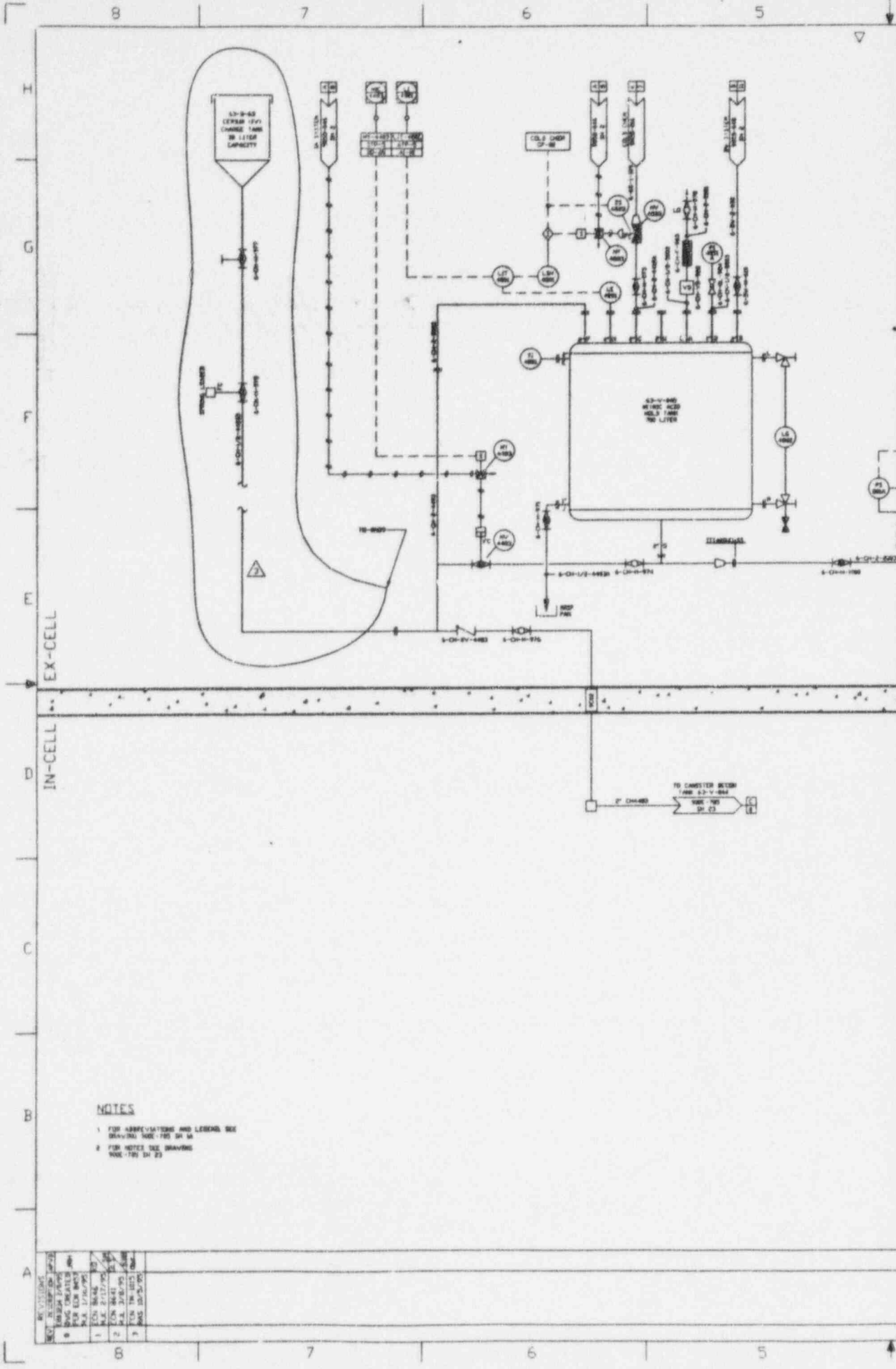
- 1 FOR ABBREVIATIONS AND LEGENDS SEE DRAWING 63-Y-001 SH 54
 - 2 FOR REFERENCE SEE THE VIT FACILITY INSTRUMENT TECH DRAWINGS
- REVISIONS**
- | NO. | DATE | DESCRIPTION | BY | CHKD. |
|-----|----------|-------------------------|-----|-------|
| 1 | 10-15-63 | ISSUED FOR CONSTRUCTION | ... | ... |
| 2 | 11-10-63 | ... | ... | ... |
| 3 | 12-10-63 | ... | ... | ... |
| 4 | 1-10-64 | ... | ... | ... |
| 5 | 2-10-64 | ... | ... | ... |
| 6 | 3-10-64 | ... | ... | ... |
| 7 | 4-10-64 | ... | ... | ... |
| 8 | 5-10-64 | ... | ... | ... |
| 9 | 6-10-64 | ... | ... | ... |
| 10 | 7-10-64 | ... | ... | ... |
| 11 | 8-10-64 | ... | ... | ... |
| 12 | 9-10-64 | ... | ... | ... |

- 3 5A-51 AIR SERVICE FROM WAREHOUSE 5-5A-51-1000 (SVC 5000-2700 SH 54)
- 4 5A-51 AIR SERVICE FROM WAREHOUSE 5-5A-51-1007 (SVC 5000-2700 SH 54)

63-Y-020
MELTER
(SFCM)



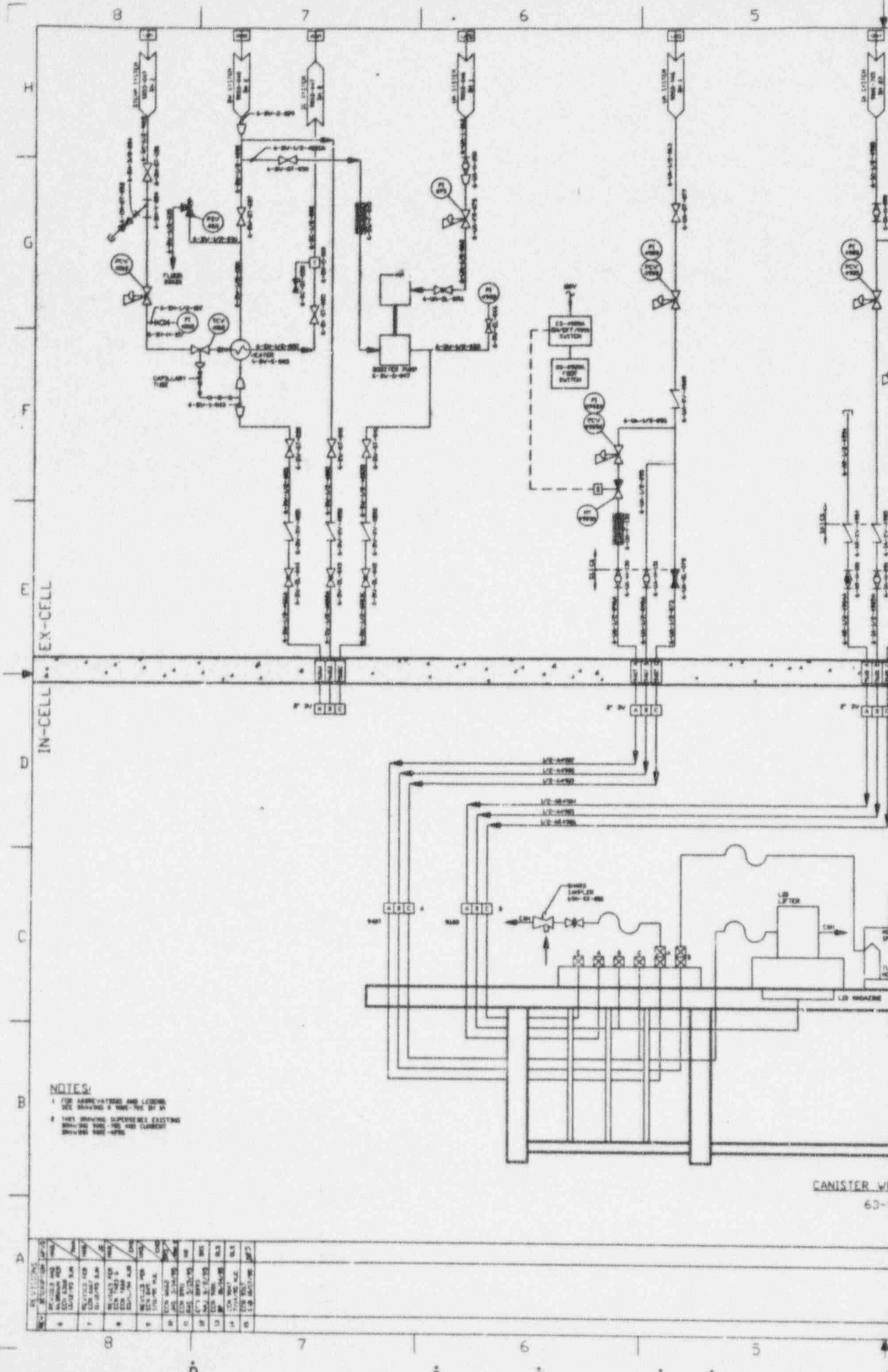
- NOTES:**
- 1 FOR ABBREVIATIONS AND LEGEND, SEE DRAWING 9000-100-01-01
 - 2 FOR REFERENCE, SEE THE VIT FACILITY INSTRUMENT CHECK DRAWING
 - 3 10-3400, 10-3700, 10-3800 AND 10-3900 ARE THERMISTOR ELEMENTS
 - 4 THE DRAWING SUPERSEDES EXISTING DRAWING 9000-100-01-01 AND CURRENT DRAWING 9000-100-01-02
 - 5 10-3000 AND SERVICE FROM 9000-100-01-01
 - 6 10-3100 AND SERVICE FROM 9000-100-01-01
- REVISIONS:**
- | NO. | DATE | BY | CHKD. | REVISION |
|-----|----------|-----|-------|----------|
| 1 | 10-10-68 | ... | ... | ... |
| 2 | ... | ... | ... | ... |
| 3 | ... | ... | ... | ... |
| 4 | ... | ... | ... | ... |
| 5 | ... | ... | ... | ... |
| 6 | ... | ... | ... | ... |
| 7 | ... | ... | ... | ... |
| 8 | ... | ... | ... | ... |



NOTES

- 1 FOR ABBREVIATIONS AND LEGEND SEE ORIGINAL AND PDS SH 54
- 2 FOR NOTES SEE DRAWING AND PDS SH 23

REV.	DESCRIPTION	DATE
0	ISSUED FOR PDS	1/16/75
1	REVISED	1/16/75
2	REVISED	1/16/75
3	REVISED	1/16/75



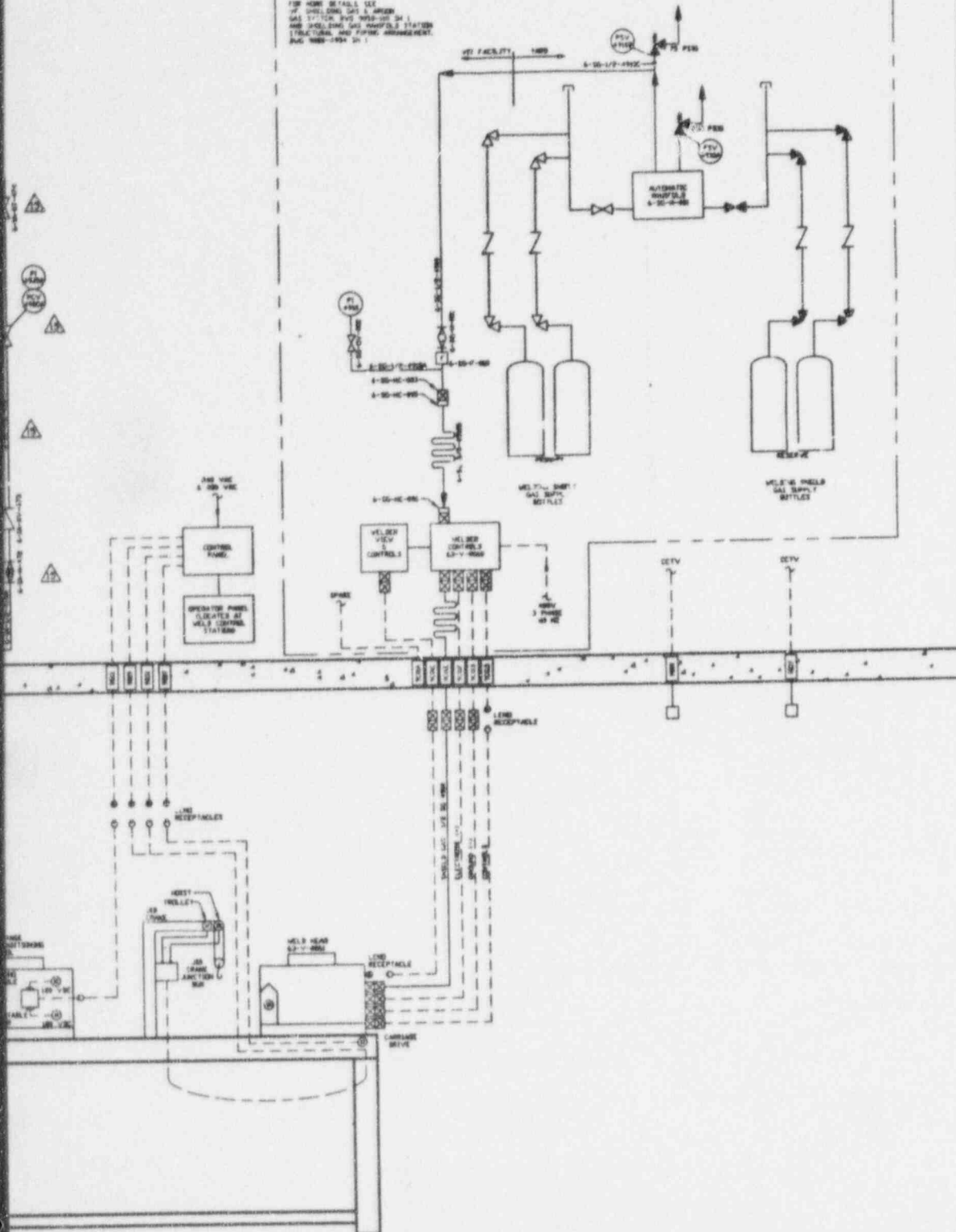
NOTES:
 1 FOR ABBREVIATIONS AND LEGENDS SEE DRAWING A 100-100-01
 2 THIS DRAWING SUPPOSES EXISTING DRAWING A 100-100-01 AND ELEMENTS SHOWN ARE NEW

NO.	DESCRIPTION	DATE	BY	CHKD.
1	ISSUED FOR CONSTRUCTION	11/17/57	W.A.	W.A.
2	REVISIONS			
3	REVISIONS			
4	REVISIONS			
5	REVISIONS			
6	REVISIONS			
7	REVISIONS			
8	REVISIONS			
9	REVISIONS			
10	REVISIONS			
11	REVISIONS			
12	REVISIONS			
13	REVISIONS			
14	REVISIONS			
15	REVISIONS			
16	REVISIONS			
17	REVISIONS			
18	REVISIONS			
19	REVISIONS			
20	REVISIONS			

CANISTER WE
 60-V

NOTE

FOR MORE DETAILS SEE
 WELDING STATION 63-V-049
 AND INCLUDING GAS HANDLING SYSTEM
 STRUCTURAL AND PIPING ARRANGEMENT
 AND 63-V-049-01



**ANSTEC
 APERTURE
 CARD**

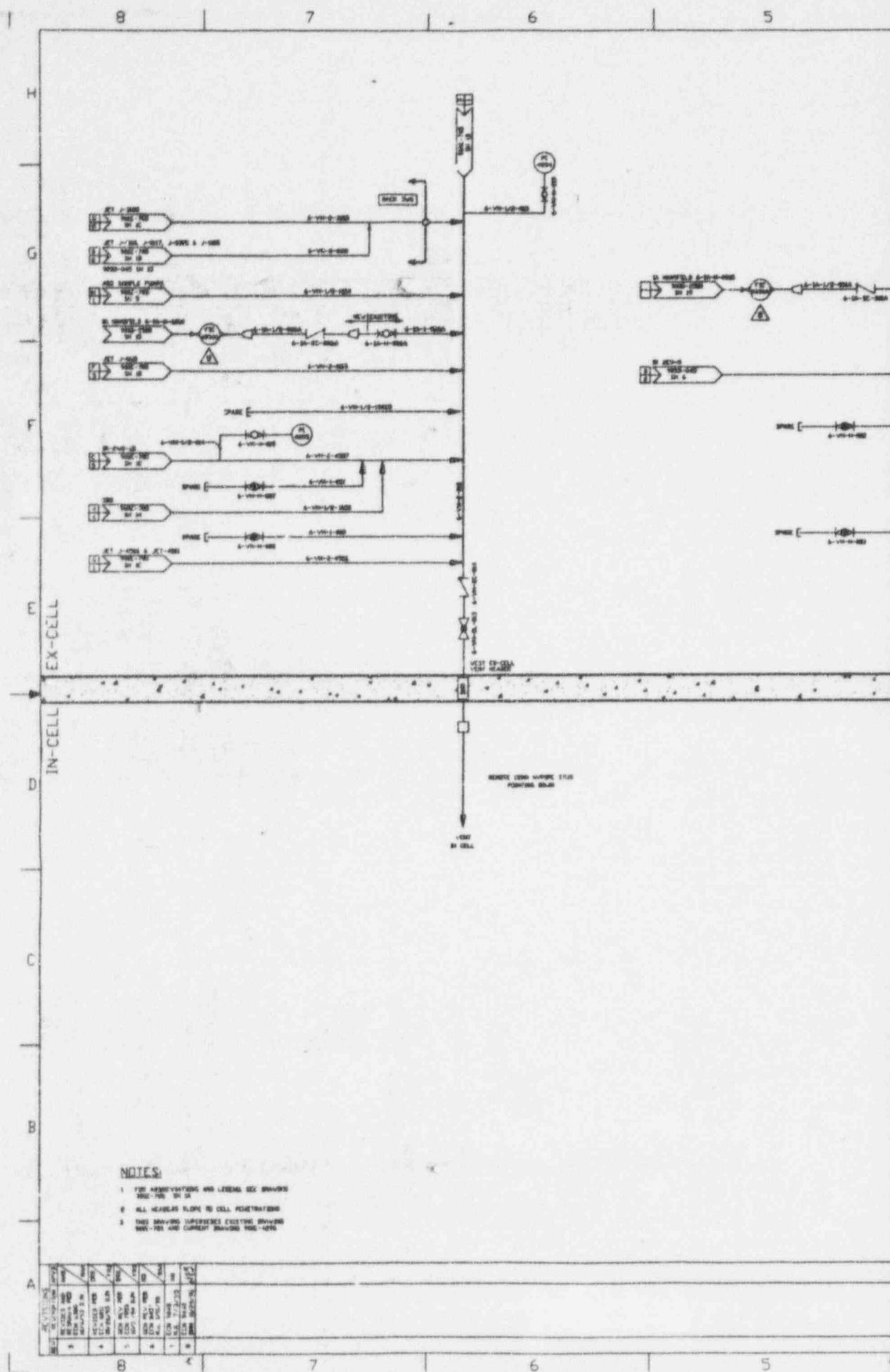
Also Available on
 Aperture Card

WELDING STATION
 63-V-049

ITEM NO.	DESCRIPTION	PART NO. (SEE DRAWING)	MATERIAL OR SPEC.
PARTS LIST			
1	WELDER VIEWS CONTROL	63-V-049-01	STEEL
2	WELDER CONTROL	63-V-049-02	STEEL
3	WELTING SHELF GAS SUPPLY BOTTLES	63-V-049-03	STEEL
4	AUTOMATIC HANDLER	63-V-049-04	STEEL
5	CONTROL PANEL	63-V-049-05	STEEL
6	OPERATOR PANEL	63-V-049-06	STEEL
7	WELD HEAD	63-V-049-07	STEEL
8	WELDING STATION	63-V-049-08	STEEL

CAD DRAWING-DO NOT REVISE THIS DRAWING

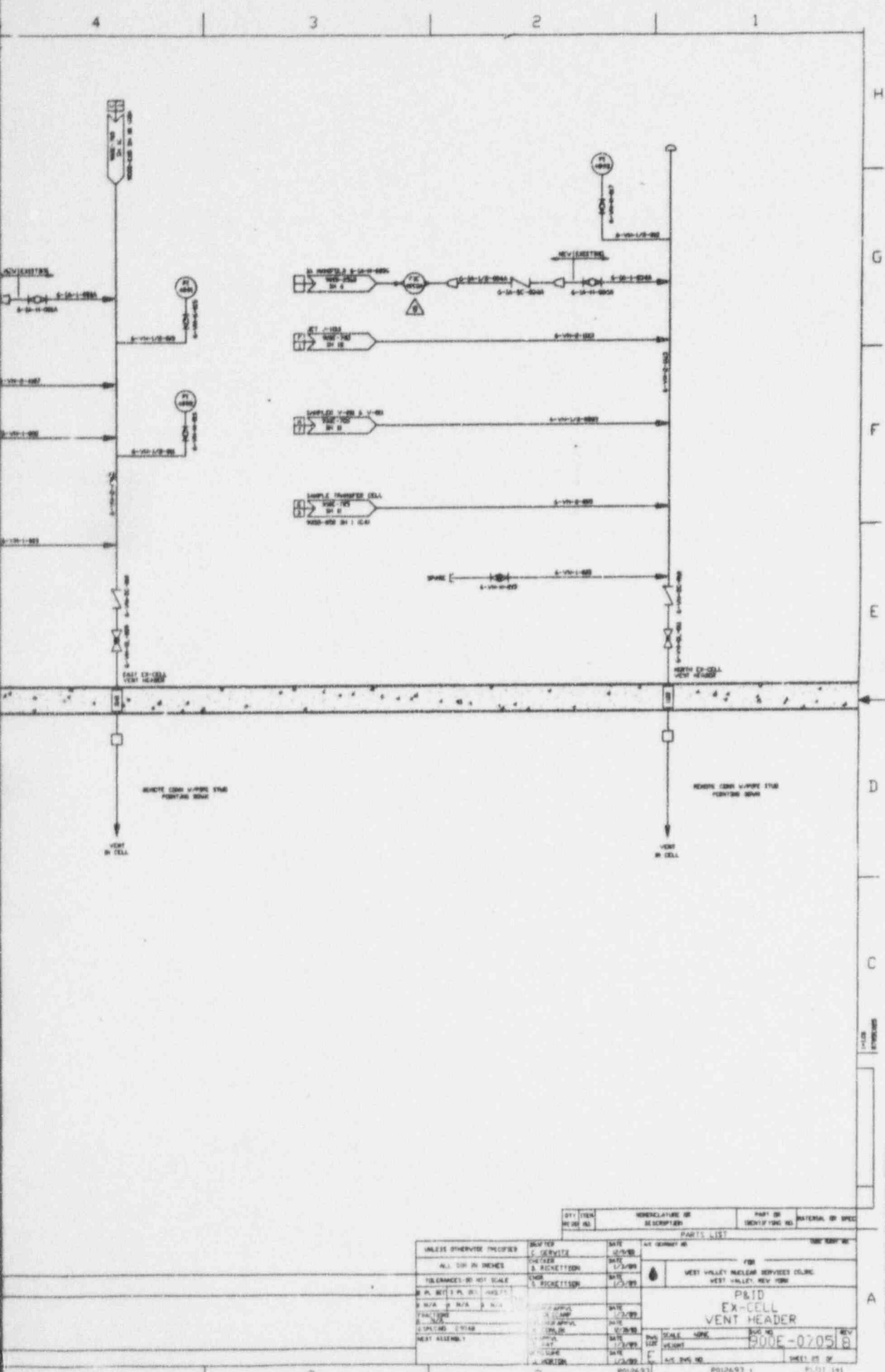
9602210422 - 05



- NOTES:**
1. FOR IDENTIFICATION AND GENERAL SEE DRAWING 2000-200-10-01
 2. ALL HEADERS FLORE TO CELL PENETRATIONS
 3. THIS DRAWING SUPERSEDES EXISTING DRAWING 2000-200-10-01

NO.	REVISION	DATE	BY	CHKD.	APP.
1	AS SHOWN	10-1-68
2
3
4
5
6
7
8
9
10

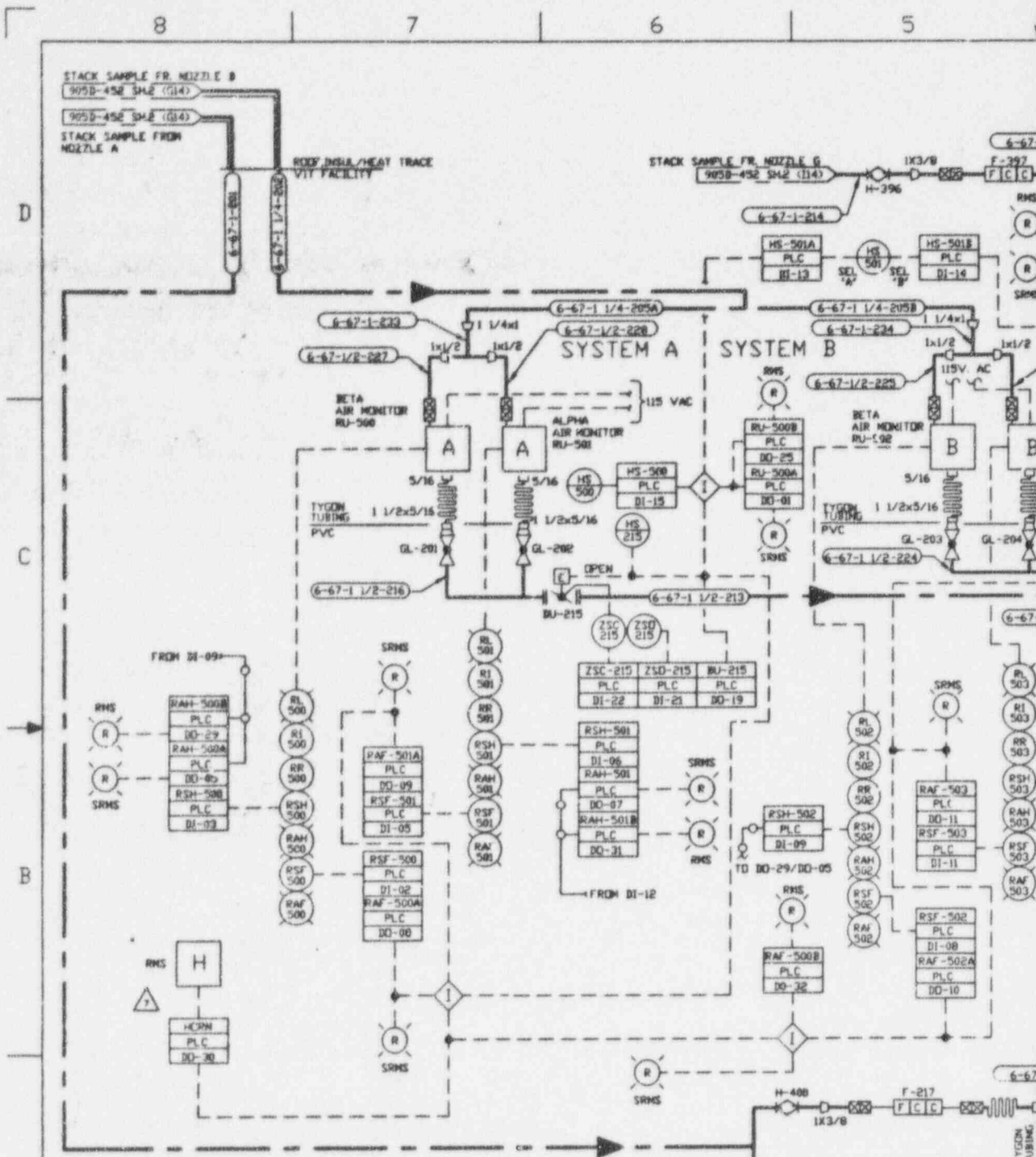
E D C B A



ANSTEC APERTURE CARD
 Also Available on Aperture Card

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	REVISION	DATE	BY	CHKD.
1	VENT IN CELL	2	PCS	1	1/2/88	J. RICHETTSON	
2	VENT IN CELL	2	PCS	1	1/2/88	J. RICHETTSON	
3	VENT IN CELL	2	PCS	1	1/2/88	J. RICHETTSON	
4	VENT IN CELL	2	PCS	1	1/2/88	J. RICHETTSON	
5	VENT IN CELL	2	PCS	1	1/2/88	J. RICHETTSON	
6	VENT IN CELL	2	PCS	1	1/2/88	J. RICHETTSON	
7	VENT IN CELL	2	PCS	1	1/2/88	J. RICHETTSON	
8	VENT IN CELL	2	PCS	1	1/2/88	J. RICHETTSON	
9	VENT IN CELL	2	PCS	1	1/2/88	J. RICHETTSON	
10	VENT IN CELL	2	PCS	1	1/2/88	J. RICHETTSON	

9602210422-06



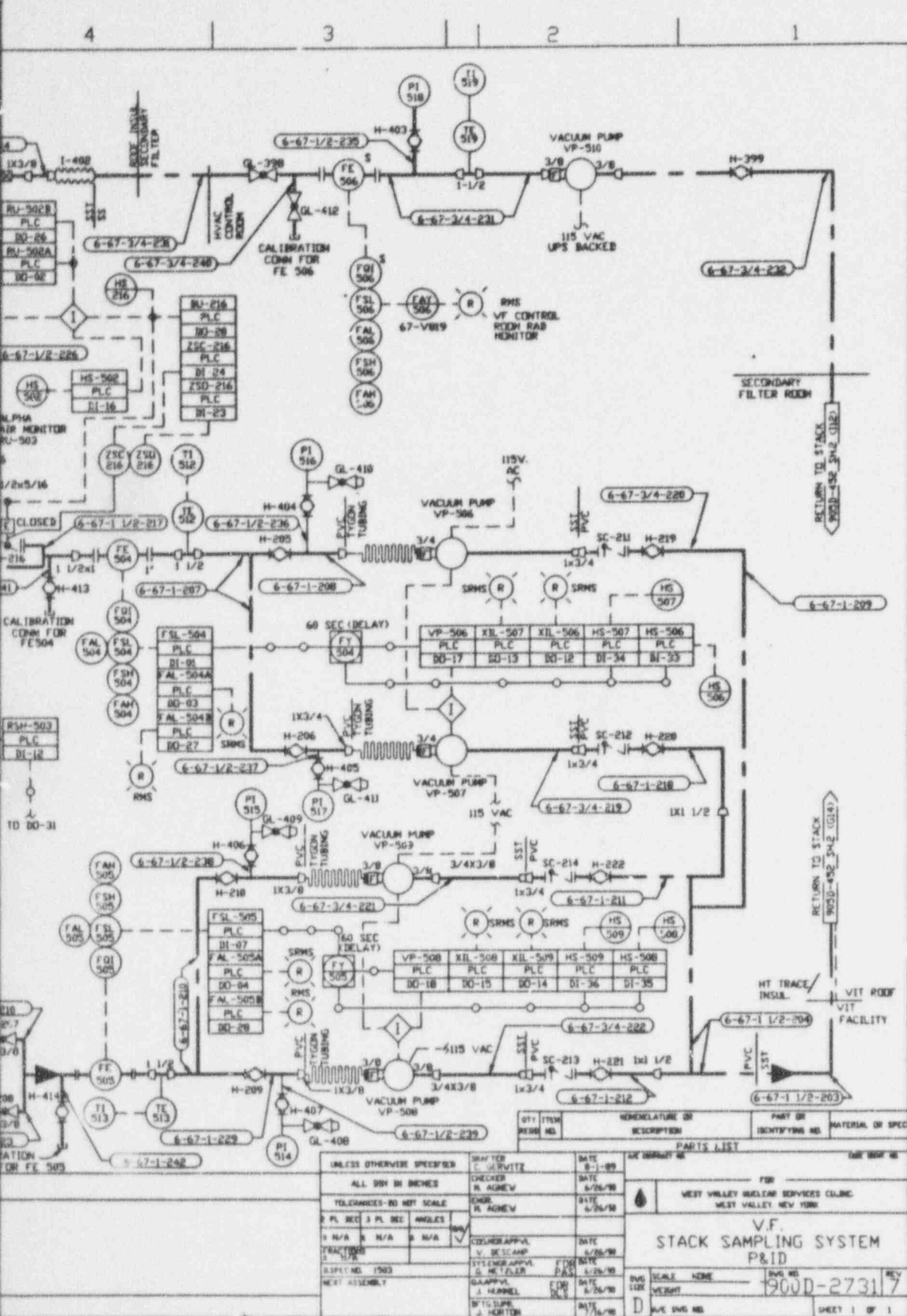
INSTR TAG HD
 2 (RHS) DENOTES SEISMICALLY QUALIFIED INSTRUMENT

1 ALL VALVES ARE PREFIXED BY 6-67

REFERENCE DRAWINGS:
 VITRIFICATION SYS HVAC P&ID
 VITRIFICATION FACILITY = 905D-452
 SYMBOLS, NOTES & LEGEND = 900D-1306, 1307, 1308.

NOTES

NO.	DATE	BY	CHKD	REVISIONS
0	ER 1905	7/16/94	RM	
1	ECN 4265			
2	ECN 4265	7/16/94		
3	ECN 4265	7/16/94		
4	ECN 4265	7/16/94		
5	ECN 4265	7/16/94		
6	ECN 9820	9/15/95		
7	ECN 9343	10/24/95		



ANSTEC
APERTURE
CARD

Also Available on
Aperture Card

QTY	ITEM	DESCRIPTION OR	PART OR	MATERIAL OR SPEC
REQD	NO.	REVISION	IDENTIFYING NO.	
PARTS LIST				
UNLESS OTHERWISE SPECIFIED				
DRAWN BY C. G. WITTE		DATE 8-1-89		REV 001
CHECKED BY R. AGNEW		DATE 8/26/89		REV 002
DESIGNED BY R. AGNEW		DATE 8/26/89		REV 003
APPROVED BY J. HUNNELL		DATE 8/26/89		REV 004
DRAWN BY J. HUNNELL		DATE 8/26/89		REV 005
CHECKED BY J. HORTON		DATE 8/26/89		REV 006

WEST VALLEY NUCLEAR SERVICES CORP.	
WEST VALLEY, NEW YORK	
V.F. STACK SAMPLING SYSTEM P&ID	
SCALE NONE	REV NO 900D-2731
DWG NO 900D-2731	SHEET 1 OF 1

CAD DRAWING-DO NOT REVISE THIS ORIGINAL

9602210422-07

VDNR

DRAWING NUMBER

DRAWING NUMBER

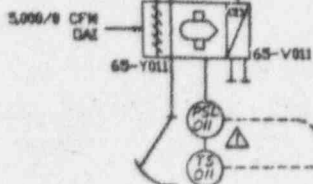
8

7

6

5

D

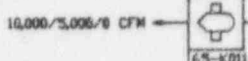


LOWER LEVEL

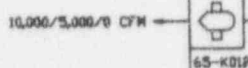
ΔP=0 TO -20



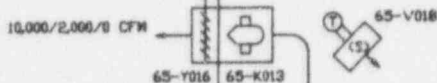
C



65-TS-01 65-TS-02



UPPER LEVEL



B

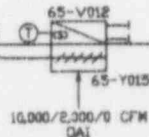
SCALE ROOM

ΔP=0 TO -25



65-V016

SWITCH



STAIRS

TG 300/0 CFM

CONTROL ROOM

ΔP=0 TO +10

H&V CONTROL PANEL 65-CP-03

A

NO.	REVISIONS	DATE	BY
0	REVISED	10/25/55	WJ
1	ECN 8470	10/31/55	WJ

8

7

6

5

D

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B

A

1

2

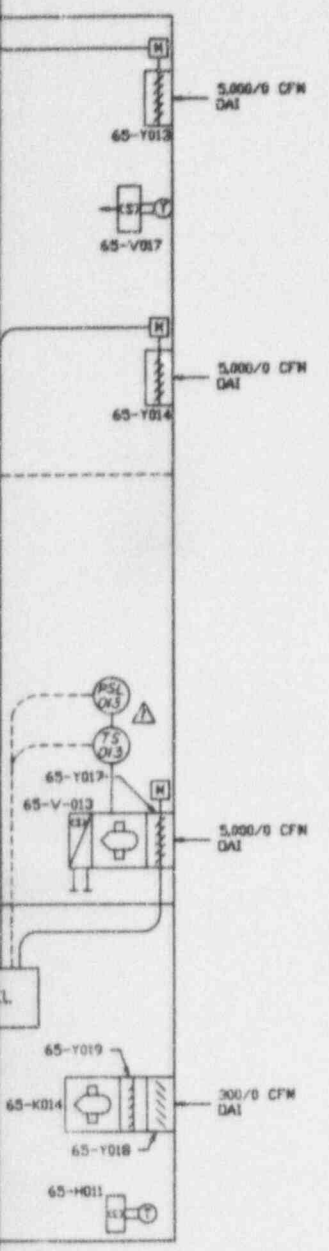
3

4

5

6

4 3 2 1



D

C

B

A

CAB DRAWING-DO NOT REVISE THIS ORIGINAL

D

C

B

A

4

3

2

1

1

2

3

4

4. ALL AIR QUANTITIES (CFM) ARE FOR 1500 FT. ALTITUDE ABOVE SEA LEVEL.
3. \odot DENOTES THERMOSTAT
2. ΔP DENOTES INCHES OF WATER COLUMN.
1. FOR SYMBOLS, NOTES AND LEGEND SEE DRAWINGS 900B-1306, 1307 AND 1308.

NOTES:

QTY	SYMBOL	RECORD NO.	DESCRIPTION	PART OR IDENTIFYING NO.	MATERIAL OR SPEC.
PARTS LIST					
UNLESS OTHERWISE SPECIFIED			DRAFTER: LINDA PARIS CHECKED: KEVIN QUEALY DATE: 9/22/89 DATE: 10/27/89 DATE: 11/24/89	PART NO. 738 West Valley Rooter Services Co., Inc. West Valley, New York	
TOLERANCES-30 NET SCALE			COLD CHEMICAL BUILDING H&V AIR FLOW DIAGRAM AND P&ID		
P. PL. DEC. 3 PL. DEC. ANGLES FRACTIONS SPECIAL 1536 NEXT ASSEMBLY					
DATE: 12/11/89 DATE: 1/27/89 DATE: 12/2/89			Dwg. NO. 900D-2803 SCALE: NONE Dwg. SIZE: D SHEET 1 OF 1	REV. 1	

4 3 2 1

A

B

C

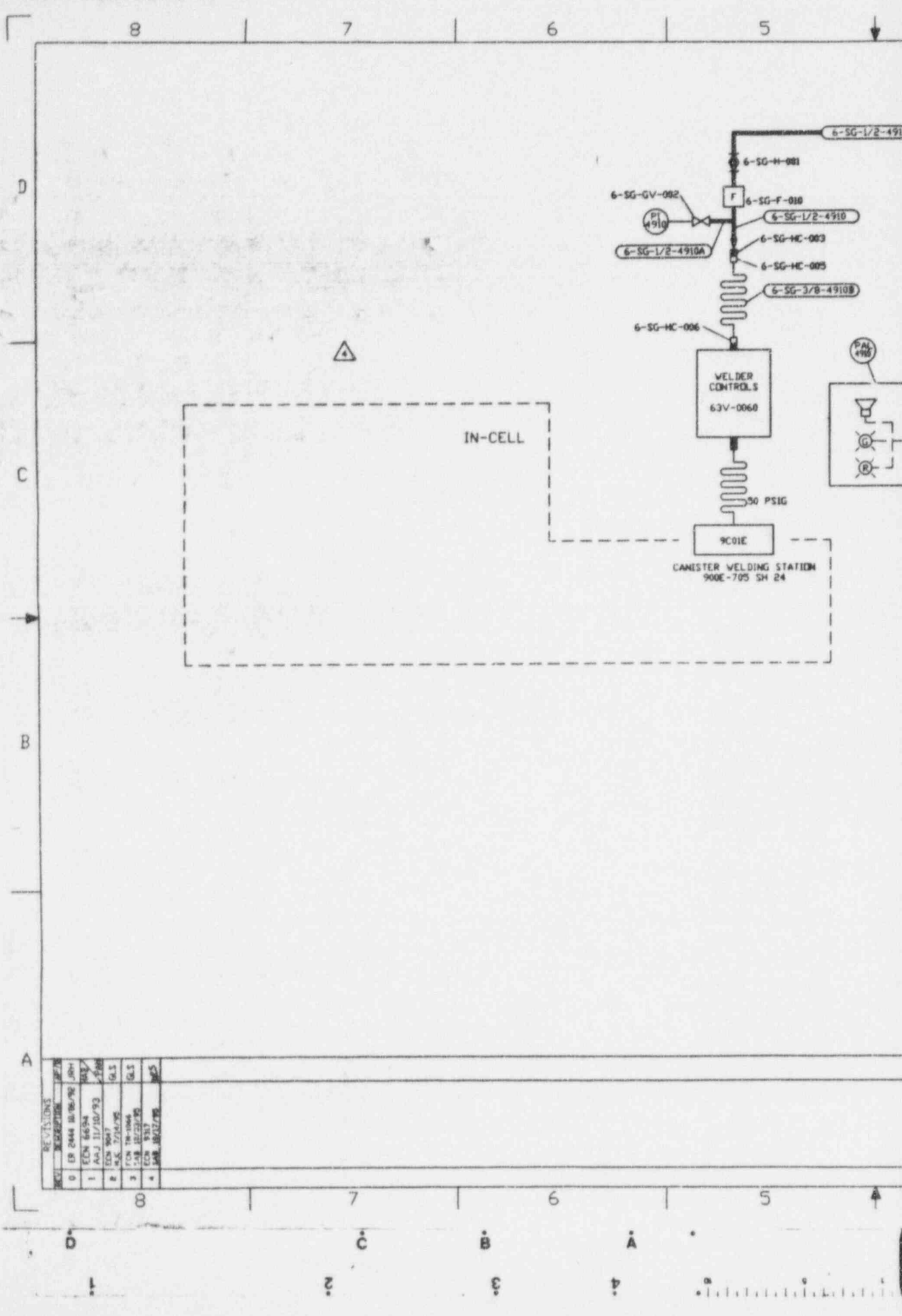
D

4

3

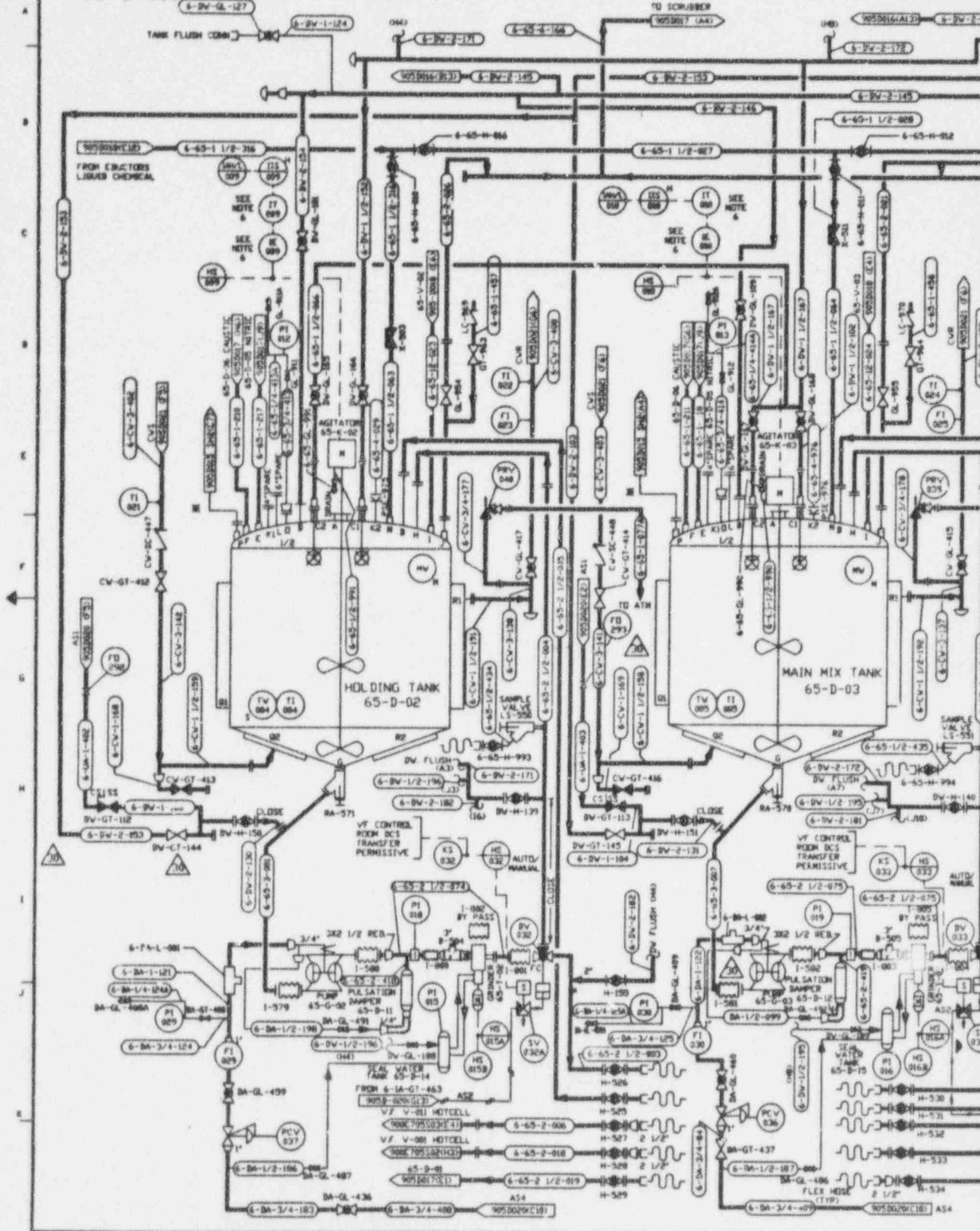
2

1



REV	DESCRIPTION	DATE	BY
0	ER 2444 10/06/90	10/6/90	ER
1	EDN 6694	11/10/93	AAJ
2	EDN 9047	12/10/95	GLS
3	EDN 10064	11/27/95	GLS
4	EDN 9317	10/27/96	MS

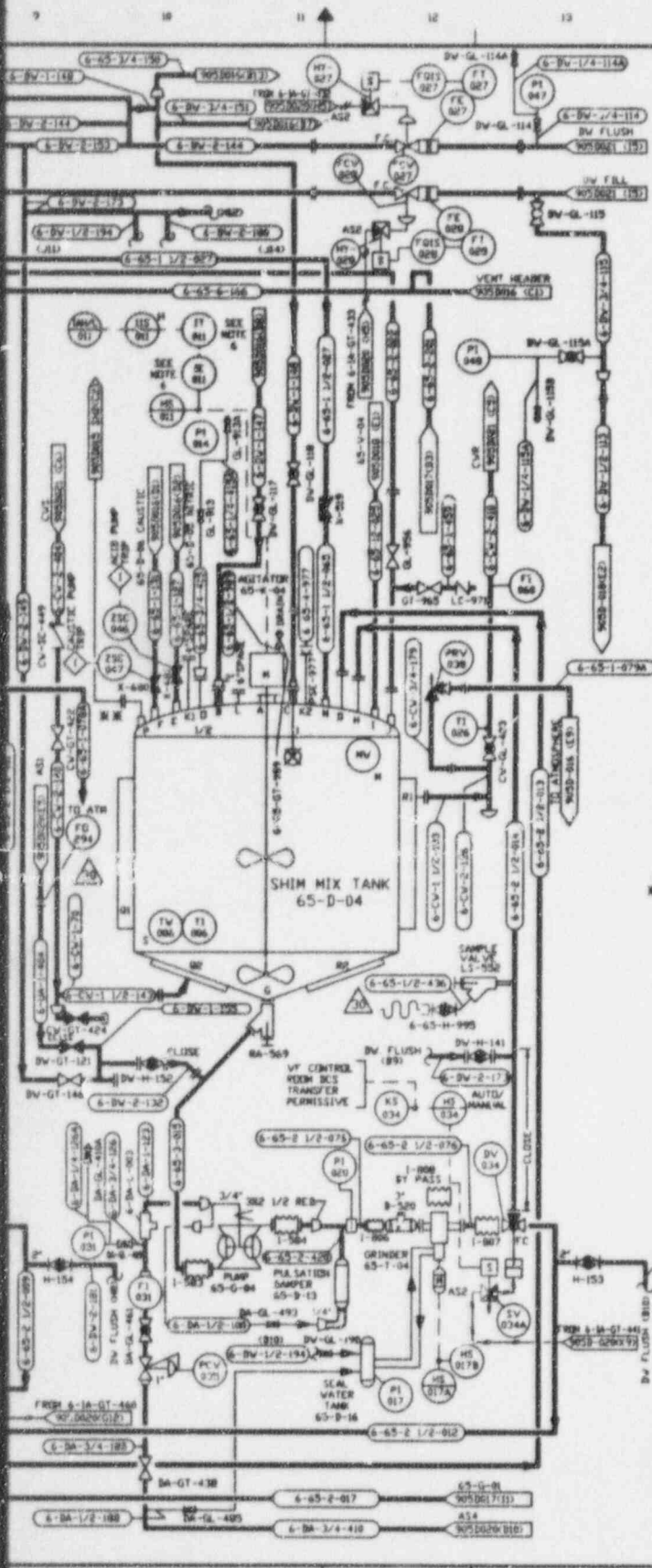
905-D-015



COY5088 1-1-08

D C B A

2 3 4



NO.	DATE	REVISION	BY	CHK	APPROVED
B	05-14-87		TJK	AJD	R.A. AJO EJP HDV
GENERAL REVISION					
C	08-14-87		TJK	AJD	EGS AJO EJP HDV
REVISION PER EBAR 245A					
D	10/23/87		TJK	AM	R.A. AJO HDV
REVISION PER EBAR 345B					
E	10/3/88	ER 1468			JRM
F	10/27/95	EEN 9379	AAJ	HAB	
G	11/27/95	EEN 9441	BP	GLS	
H	5/15/95	EEN 8956	DBO	GLS	
I	6/6/95	EEN 8976	N.A.	DRS	
J	7/11/95	EEN 9049	AAJ	DRS	
K	09/27/95	EEN 9057	BP	GLS	

REFERENCE DRAWINGS

- COLD CHEMICAL UTILITY P & SPS
- 905-D-019
 - 905-D-020
 - 905-D-021
 - 905-D-022

NOTES

1. ABB SUPPLY LEGEND
AS1=100 PSIG UTILITY AIR
AS2= 50 PSIG INSTRUMENT AIR
AS3= 20 PSIG INSTRUMENT AIR
AS4=100 PSIG DRY UTILITY AIR
 2. ALL SLURRY LINES SHALL BE DESIGNED WITH LONG RADIUS (30) BENDS.
 3. ALL SLURRY TRANSFER LINES TO BE DESIGNED WITH BREAK FLANGES LOCATED EVERY 40 FEET MINIMUM.
 4. ALL BALL VALVES IN SLURRY SERVICE TO BE FULL PORTED WITH BOLT ON BONNETS.
 5. DELETED.
 6. THIS ITEM IS LOCATED IN MCC.
 7. ALL INSTRUMENT ITEM NUMBERS ARE PRECEDED BY 65-
 8. ALL VALVE/SPECIALTY ITEM NUMBERS ARE PRECEDED BY 65-UNLESS OTHERWISE NOTED
 9. HAZARDS SHALL BE PLACED IN WARD SCALE AREA AND AT THE EAST SIDE OF THE EL. 1155W OPERATING PLATFORM
 10. ALL VALVE AND LHM NUMBERS ARE PRECEDED BY 6
 11. SUMMARY ALARM 65-9902 TO V# CONTROL ROOM BCS FROM 65-07-05 ANNUNCIATOR. 65-480-05 REFER TO DWG 1002-785 SHEET IN HESC ALARMS & INTERLOCKS FOR ALARMS AND PERMISSIVE DETAILS.
- W LEVEL CONTROL STATION 01
X LEVEL CONTROL STATION 02

EQUIP NUMBER	NAME	REFERENCE DWG. NO.	DESCRIPTION
65-B-02	SLURRY HOLD TANK	E-1489	5000 GAL WORKING VOL. 9'-6"X8'-9" S.S.304L SS
65-B-03	MIX TANK	E-1490	5000 GAL WORKING VOL. 9'-6"X8'-9" S.S.304L SS
65-B-04	SHIM TANK	E-1492	500 GAL WORKING VOL. 4'-0"X7'-9" S.S.304L SS
65-G-02	SLURRY PUMPS		AIR DR DOUBLE DIAPHRAGM PUMPS
65-G-03			W# MODEL SB3-A 9-2666PM.3"SIZE
65-E-02	SH TANK AGITATORS		15 HP.68 RPM.1-36" DIA. 2-54"/DIA. BLADES.304L SS
65-E-03			
65-H-04	SHIM TANK AGITATOR		2 HP.84 RPM.2-24" DIA. BLADES.304L SS
65-B-14	SEAL WATER POTS		IKA WORKS SUPPLIED SEAL POTS
65-B-15			
65-B-16			
65-B-11	SLURRY PUMP		WARREN RUPP TRANQUILIZER
65-B-12			
65-B-13			
65-T-02	SLURRY GRINDERS		IKA WORKS 40 HP. DISPAK 100 QPM
65-T-03			
65-T-04			

FOR DRAWING ORDER SEE DRAWING NO.

APPROVE WORK BY	DATE	PROJECT NO.	ORDER NO.
R.D. WEINGART	03-28-87	65-015	905D-015
ENGINEER SUPV			
A.J. DUFFIN	03-28-87		
CHECKED BY			
F. TUA (P&ID)	03-28-87		
DESIGN			
R.J. LEVCO	03-28-87		
CHECKED			
T.J. PIAZZA	03-28-87		
DRAWN			
R.J. LEVCO	03-28-87		

WEST VALLEY NUCLEAR SERVICES COMPANY, INC
WEST VALLEY, NEW YORK

WEST VALLEY DEMONSTRATION PROJECT

P & ID
COLD CHEMICAL PREPARATION AND FEED SYSTEM

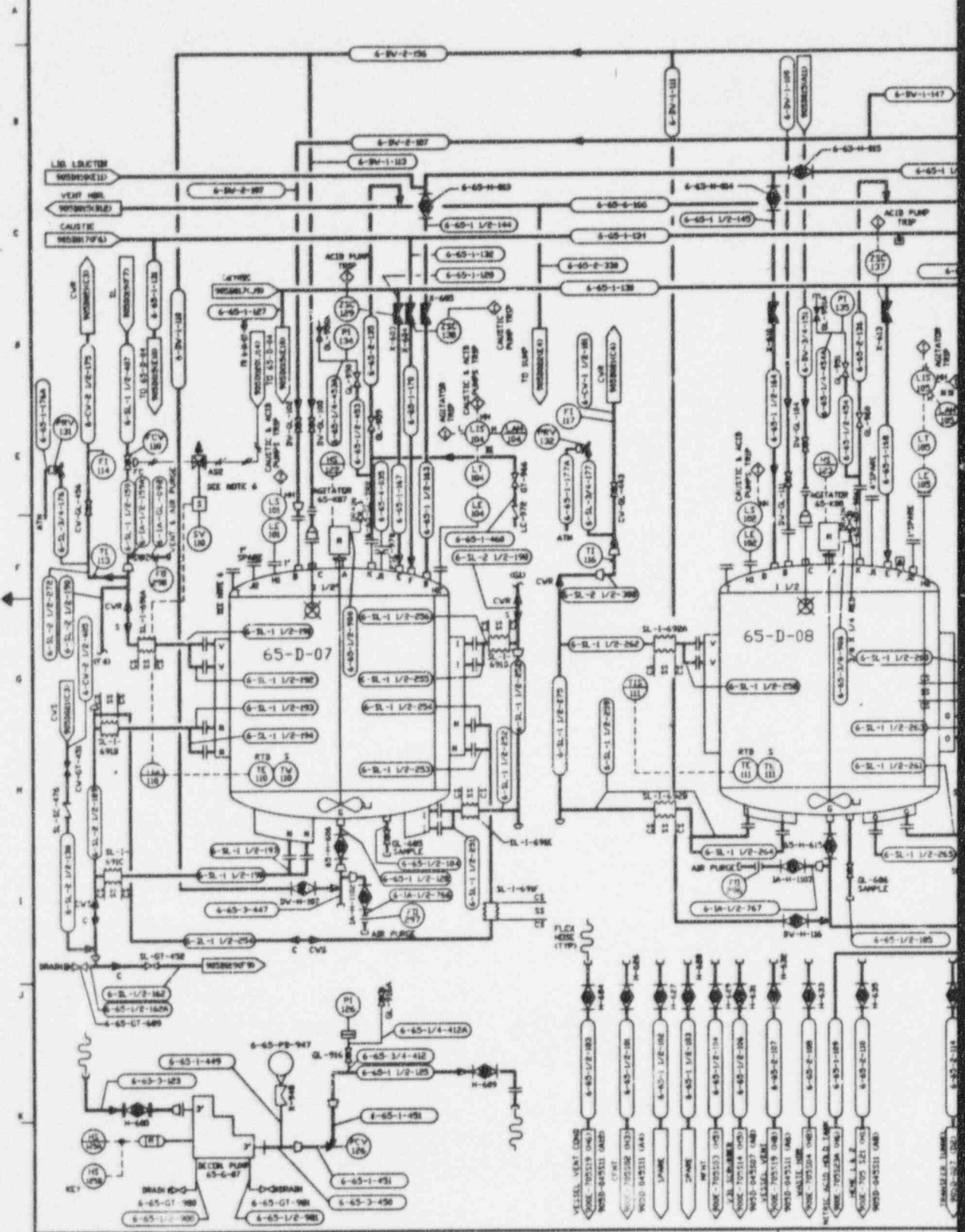
DRWING NO. 905D-015
REV. 30

ANSTEC APERTURE CARD

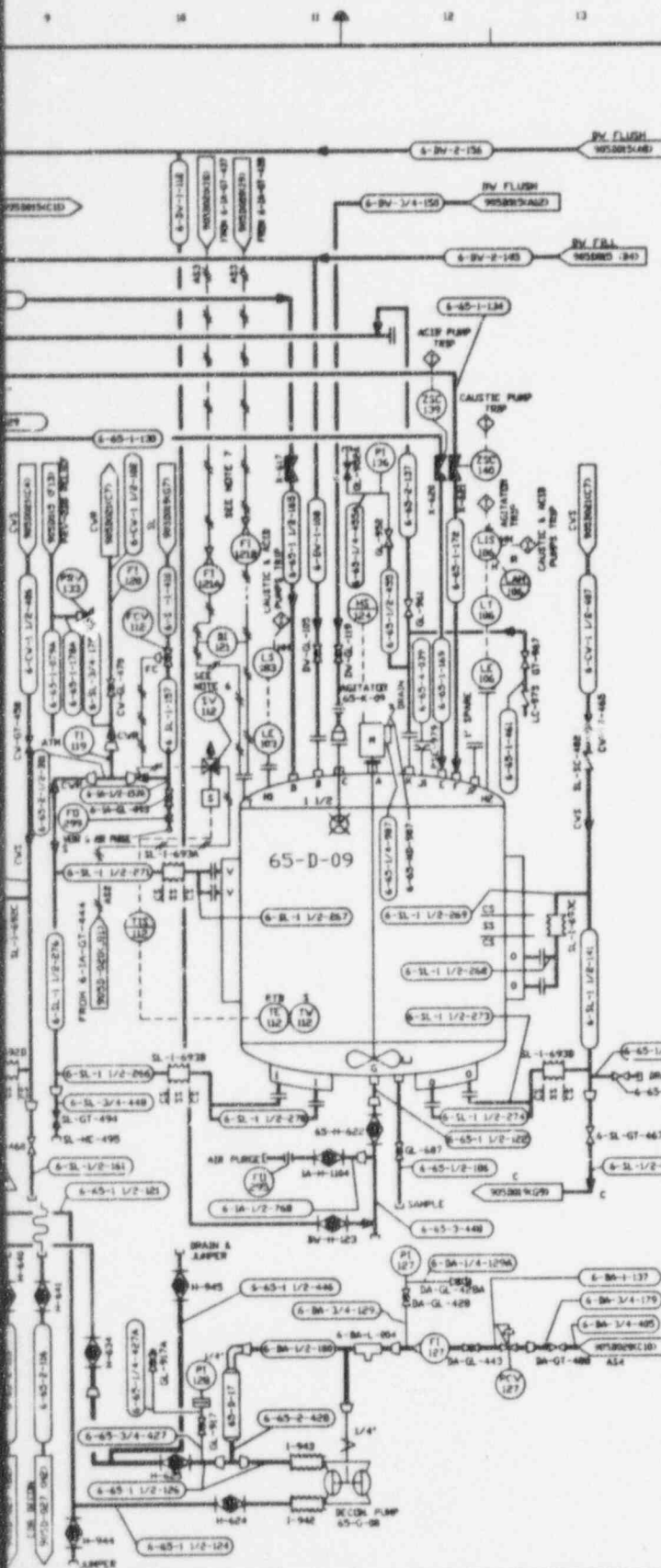
Also Available as Aperture Card

9602210422-10

905-D-016



011000 1-100



REV	DATE	REVISION	DR	H	APPROVED
B	05-14-87		TJK	JJD	P.A. AJD FDR HDV
GENERAL REVISION					
C	09-14-87		TJK	JJD	EGG R.A. AJD FDR HDV
REVISION PER EBAR 740A					
B	10-23-87		TJK	JVD	R.A. AJD HDV
REVISION PER EBAR 792A					
B	10-03-88	ER 146B			BR
D1	2/6/90	REV'S PER ECR 8566 & 8575	H.A.	KD	PAW
D2	03/27/90	REV'S PER ECR 8626	BP	BR	PAW
D3	3/28/90	REV'S PER ECR 8730	H.A.	KD	
D4	5/18/90	REV'S PER ECR 8936	BRW	DRS	
D5	6/6/90	REV PER ECR 8976	H.A.	BR	
D6	7/11/90	REV'S PER ECR 9049	AAJ	DRS	
D7	10/28/90	REV'S PER ECR 9083	H.A.	KD	
D8	3/11/94	REV'S PER ECR 7514	H.A.	HAB	PVM
D9	4/28/94	REV'S PER ECR 7752	KGZ	DRS	HAJ
D10	11/26/94	ECR 8381	WCK	DRS	PAW

- NOTES
- FOR GENERAL NOTES SEE DWG. 905-D-015.
 - ACID, CAUSTIC, AND EDUCATED LIQUIDS LINES SHALL BE OF ALL WELDED CONSTRUCTION. WHEN THESE TRANSFER LINES ENTER A VESSEL THEY SHALL EXTEND 4' INTO TANK.
 - 65-D-07 TANK MANWAY TO BE UTILIZED AS POWDER INLET IF PNEUMATIC CONVEYING SYSTEM IS ADDED IN FUTURE.
 - ALL VALVE/SPECIALTY ITEM NUMBERS PRECEDED BY 6-5- UNLESS OTHERWISE NOTED.
 - ALL INSTRUMENT ITEM NUMBERS ARE PRECEDED BY 65-.
 - FOR OTHER COMPONENTS ASSOCIATED WITH SOLENOID VALVES SV-110 AND SV-112, REFER TO COLD CHEM SYSTEM INSTR. INSTALL. DETAILS DWG NO 905D-355, SH16.
 - FOR OTHER COMPONENTS ASSOCIATED WITH ROTAMETERS FI-121A & B, REFER TO COLD CHEMICAL SYSTEM INSTR. INSTALL. DETAILS DWG NO 905-D355 SH 22.

■ LEVEL CONTROL STATION #1
 ■■ LEVEL CONTROL STATION #2

EQUIP NO	EQUIP NAME	REF. DWG	DESCRIPTION
65-B-07	REC'DN. TR.	9005-1988	1000 GAL. V. VES. 4'-6" DI. 3'-0" TYP. 304L S.S. WITH BOLT-ON JACKETS
65-B-08	REC'DN. TR.	E-1495	250 GAL. V. VES. 3'-6" DI. 5'-6" TYP. 304L S.S. WITH BOLT-ON JACKETS
65-B-09	REC'DN. TR.	L-1496	250 GAL. V. VES. 3'-6" DI. 5'-6" TYP. 304L S.S. WITH BOLT-ON JACKETS
65-G-07	REC'DN. METERING PUMP		1500 GPM @ 80 PSL VARIABLE DISPLACEMENT PUMP TYPE 316 SS & O-RING WETTED PARTS HELIUMVALVE 1" NCH-160-0081-E, 5 HP
65-G-08	REC'DN. TRANSFER PUMP		AIR DR. DOUBLE DIAPHRAGM VIB. MODEL ST 1 1/2" GA TYPE 3 316 SS & TEF/DA 50 GPM @ 80PSI
65-B-17	PLA. SATCH. SHAKER		VARRIN PLAIN TROMBOLIDER
65-K-07	AGITATOR		1.5 HP. 84 RPM. 1'-12" DIA. PROP. 304L SS
65-K-08	AGITATOR		0.5 HP. 430 RPM. 1'-11" DIA. PROP. 304L SS
65-K-09	AGITATOR		0.5 HP. 430 RPM. 1'-11" DIA. PROP. 304L SS

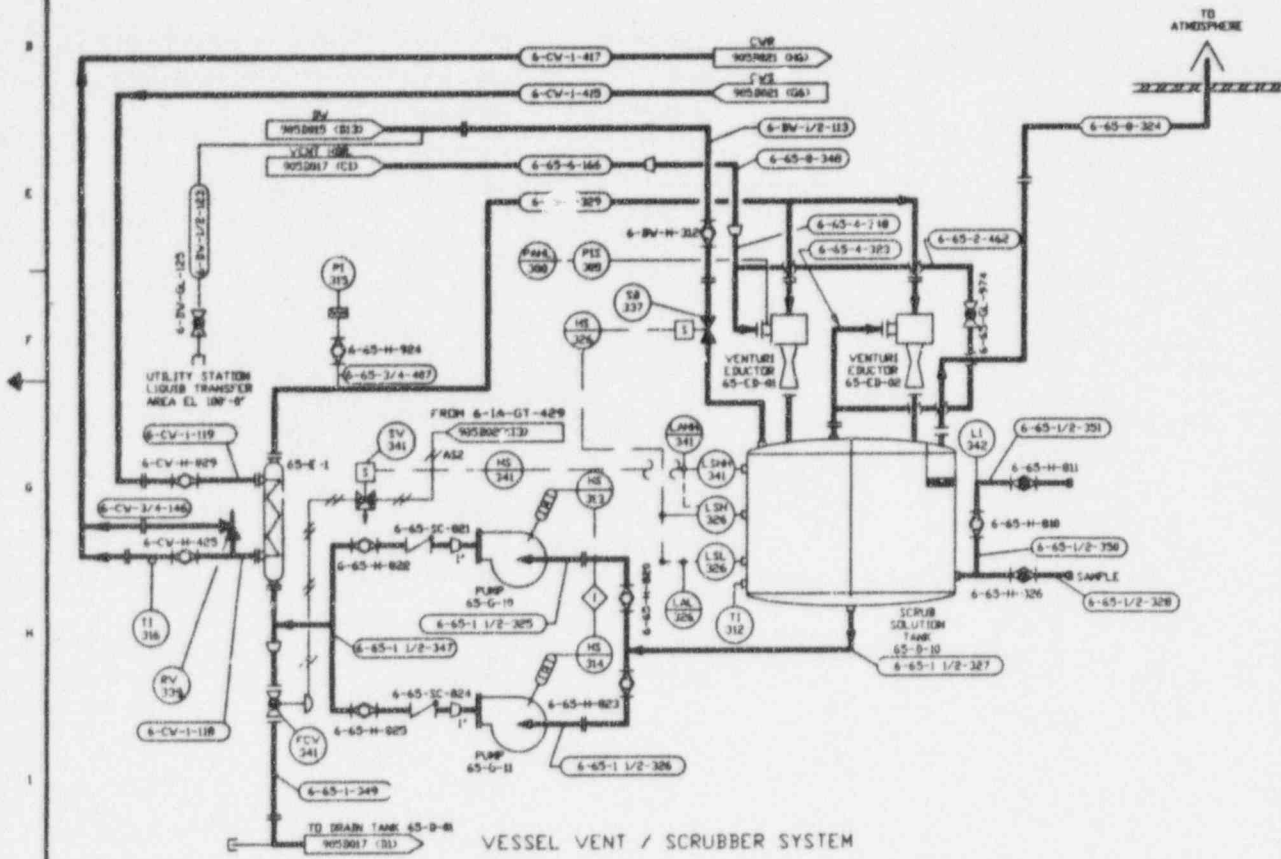
FOR DRAWING INDEX SEE DRAWING NO.

APPROV. VVNC CS	EBASCO SERVICES INCORPORATED	
PROJECT MGR	M.E. WEINGART 85-2-87	
ENGINEER SUPV	A.J. DIFILIPPO 85-2-87	
LEAD DES. ENGR	F. TILIPANO 85-2-87	
DESIGNER	B.J. LEVAD 85-2-87	
CHEM. ENGR	T.J. PIAZZA 85-2-87	
DRAWN	B. KLODZINSKI 85-2-87	
SCALE	INDEX CODE NUMBER	DRAWING NO.
1:1		905D-016
ISSUED FOR CONSTRUCTION	SCALE	REV.
	NONE	27

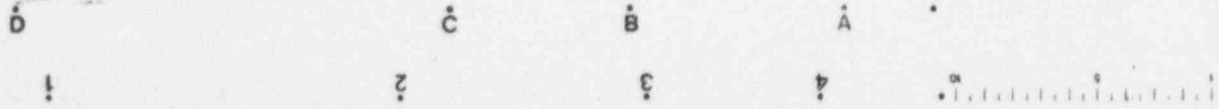
ANSTEC
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905-D-018



C110000 1=10'



NO.	DATE	REVISION	DR	CH	APPROVED
B	05-14-87		T.M.	ADJ.	R.A. A.J.D. HDV
GENERAL REVISION					
C	09-14-87		T.M.	ADJ.	EGG R.A. A.J.D. HDV
REVISION PER CBAR 3454					
D	10-23-87		T.M.	J.P.	R.A. A.J.D. HDV
REVISION PER CBAR 3455					
E	10-23-88	CR1660			JRH
F	4/28/94	REV'S PER ECR 7752	EGZ	DRS	HAJ
G	10/11/94	ECR 8280	HAB	KND	RS
H	11/16/94	ECR 8381	WCR	GLS	RWH
I	5/23/95	ECR 8956	SHH	DRS	
J	6/6/95	REV'S PER ECR 8976	R.A.	DRS	
K	12/24/95	ECR 9381	LRP	KGL	
L	4/15/93	REV'S PER ECR 6280	BAK	HAB	ZB
M	5/3/93	REV'S PER ECR 6656	WCR	HAB	DBB / JCB
N	10/6/93	GEN REV PER ECR 6880	SRB	DRS	PAN
O	10/25/93	REV'S PER ECR 6766	SRB	DRS	PAN
P	10/25/93	REV'S PER ECR 6139	SRB	DRS	PAN
Q	10/25/93	REV'S PER ECR 6847	SRB	DRS	PAN
R	10/27/93	REV'S PER ECR 6993	SRB	KND	RS

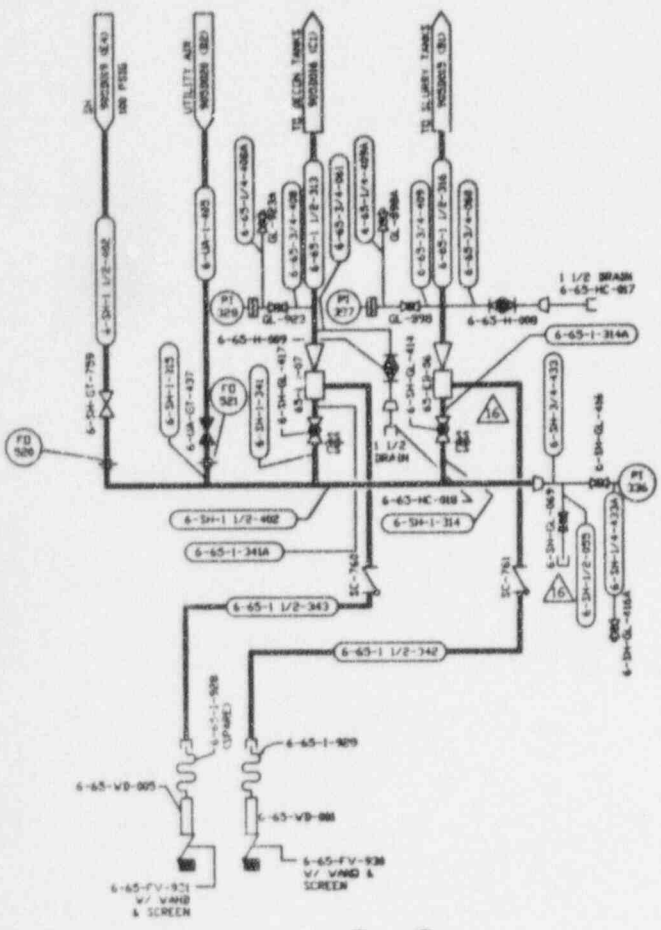
**ANSTEC
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NOTES:

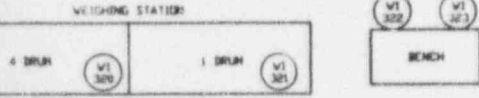
- FOR GENERAL NOTES SEE DWG. 905-B-MS.
- ALL VALVE/SPECIALTY ITEM NUMBERS PRECEDED BY 6-65-, UNLESS OTHERWISE NOTED.
- THIS ITEM IS LOCATED ON VENDOR PROVIDED PANEL. ALL OTHER PANEL MOUNTED INSTRUMENTS ARE LOCATED AT THE COLD CHEMICAL SYSTEM CONTROL STATION.
- VACUUM LINE ELBOWS SHALL HAVE A 40° RADIUS. IF FIELD CONDITIONS PREVENT USAGE, PVC HOSE MADE OF F304 AND US5M APPROVED INGREDIENTS, FIBER GLASS, STATIC CONDUCTIVE BY ENGRAVED COPPER STRAND WIRE, CAN BE SUBSTITUTED.
- ALL LINE, VALVE & INSTRUMENT NUMBERS IN PARENTHESES (XXX) ARE VENDOR P & ID NUMBERS.
- ALL INSTRUMENT ITEM NUMBERS ARE PRECEDED BY 65-.

EQUIPT. NUMBER	EQUIPT. NAME	REF. DWG. NUMBER	DESCRIPTION
65-V-92	FILL HOPPER	---	30 CU. FT.
65-V-93	FILL HOPPER	---	30 CU. FT.
65-V-94	FILL HOPPER	---	30 CU. FT.
65-H-85	VACUUM PUMP	---	RETARY LOBE
65-G-10	SCRUB SOL. TANK	---	CENTRIFUGAL TYPE, 25 GPM, 304 SS
65-G-11	SCRUB SOL. TANK	---	CENTRIFUGAL TYPE, 25 GPM, 304 SS
65-D-10	SCRUB SOL. TANK	---	100 GAL. VOLUME, 304 SS
65-ED-81	VAC. GEN. & SCRUBBER	---	8" INLET & OUTLET, MAX. 8" H2O VACUUM TOTAL
65-ED-86	LIQUID EXTRACTOR	---	1 1/2" Suction/Discharge, 1" Press. Capab. 400 PPH STEAM MAX.
65-B-81	FILTR. ASSEMBLY	---	MANUFACTURERS STD.



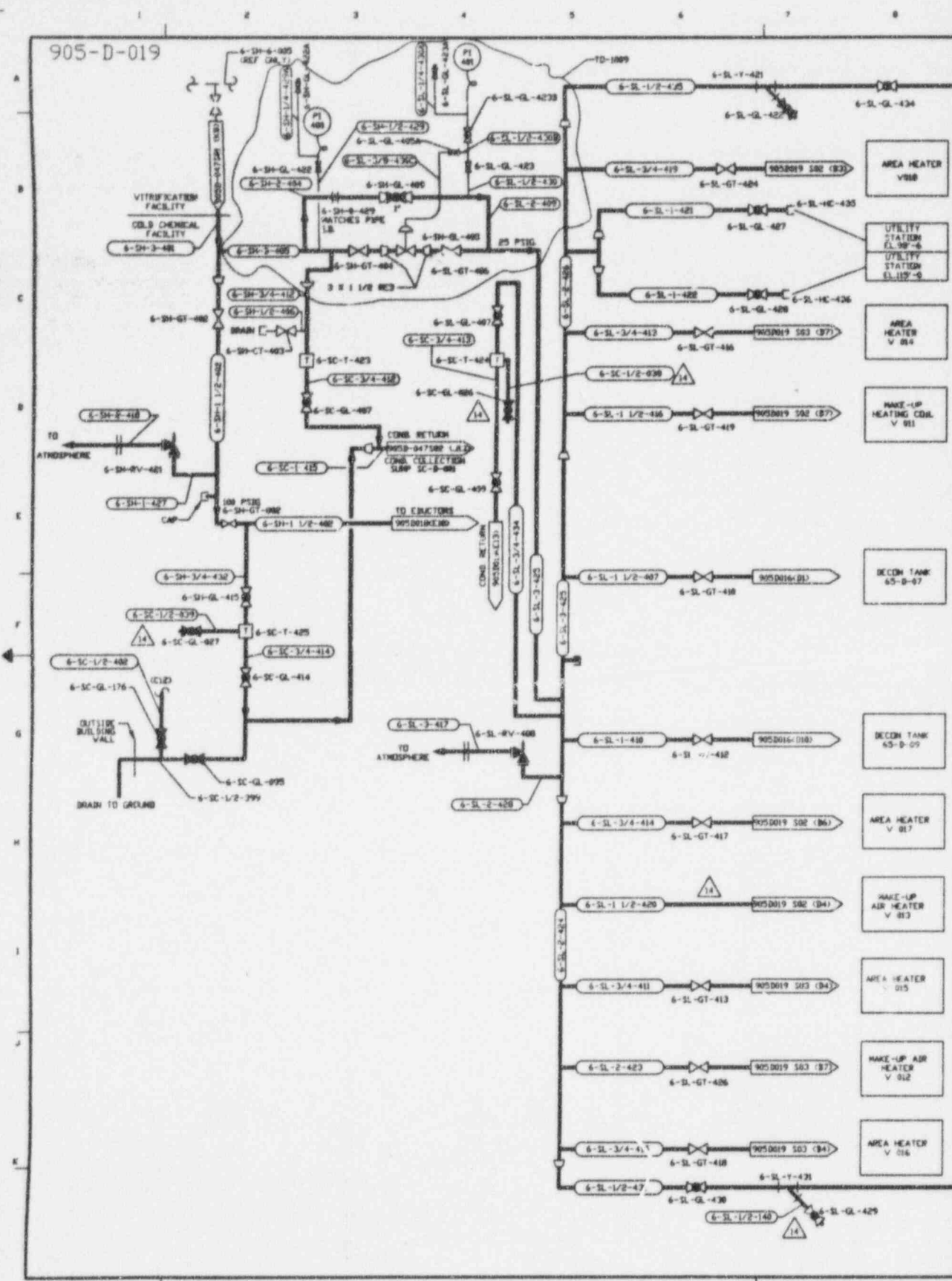
FOR DRAWING INDEX SEE DRAWING NO.

APPROV. VENDOR	EASCO SERVICES INCORPORATED		
PROJECT MGR	M.E. B.A. #52388 FOR TANK FIBER 002		
ENGINEER SUPERVISOR	WEST VALLEY NUCLEAR SERVICES COMPANY, INC. WEST VALLEY, NEW YORK		
LEAD DES. ENGR.	WEST VALLEY DEMONSTRATION PROJECT P & ID		
DESIGNER	COLD CHEMICAL PREPARATION AND FEED SYSTEM		
DRIVER	T.J. PIAZZA	D-31-87	
SCALE	SCALE	SPEC. COM. #	905D-018 16
DATE	05-14-87		
PROJECT NO.	19-CV-00275		
SUBCONTRACT NO.			
ISSUES FOR CONSTRUCTION	SCALE	SPEC. COM. #	905-D-018 D



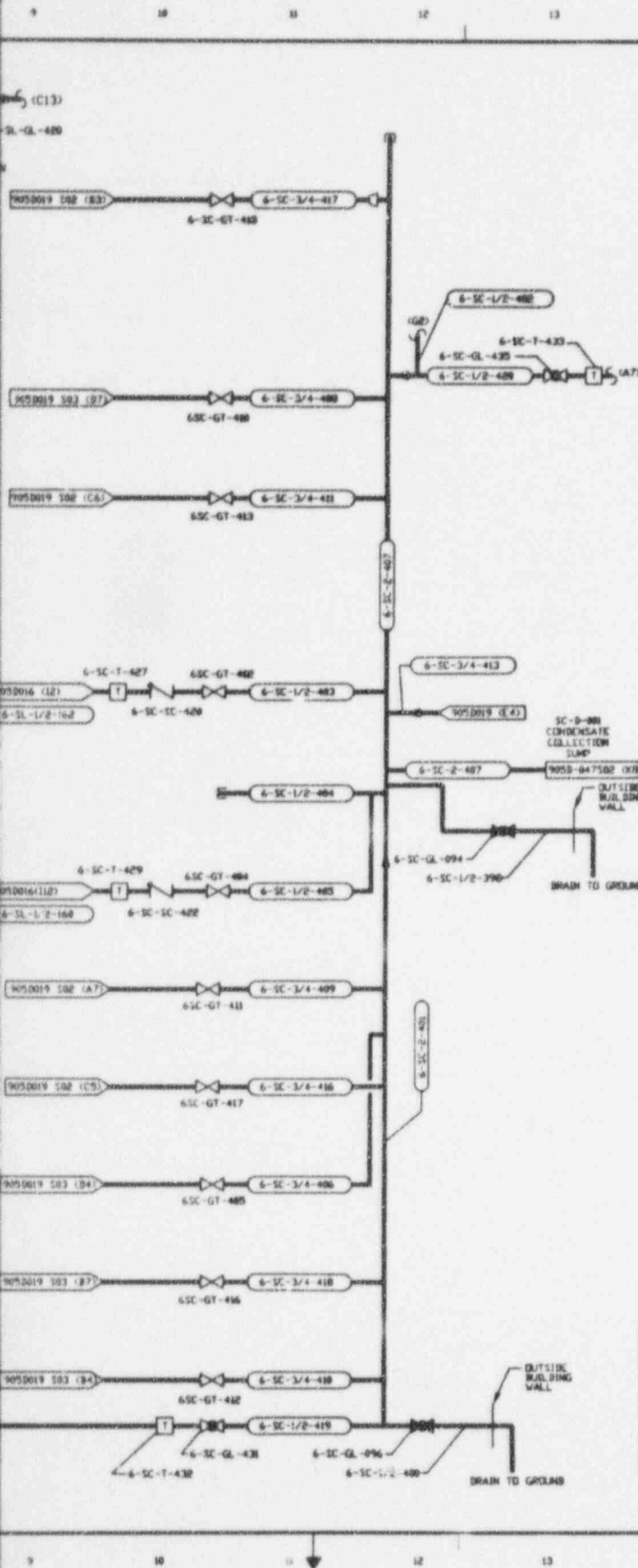
9602210422-12

905-D-019



SCALE 1"=60'

1 2 3 4 5 6 7 8



REV	DATE	REVISION	BY	CHK	APPROVED
B	6-19-87		T.K.	R.A.	P.A. FSK HBV
GENERAL REVISION					
C	08-14-87		T.K.	CGE	CGE FSK HBV
REVISION PER EBAR 9470					
D	10-29-87		T.K.	JW	R.A. FSK HBV
REVISION PER EBAR 9490					
E	10-3-88	CR 1468			JRH
F	4/19/90	REV'S PER ECR 8842	H.J.	DRS	
G	7/11/90	REV'S PER ECR 9074	DRH	GLS	
H	10/16/90	REV'S PER ECR 9083	H.J.	KD	
I	10/24/90	REV'S PER ECR 9300	LBP	KGD	
J	9/26/90	REV'S PER ECR 6780	LBP	DRS	HAJ
K	10/26/90	REV'S PER ECR 6139	H.J.	HAB	D.B.
L	11/5/90	REV'S PER ECR 6844	DRS	DRS	D.B.
M	12/14/90	REV'S PER ECR 7090	PAH	HAB	RHD
N	4/26/94	REV'S PER ECR 7732	KGZ	DRS	HAJ
O	12/13/94	REV'S PER ECR 8448	AAJ	GLS	HAJ

NOTES

- FOR GENERAL NOTES SEE DWG 905-D-015.
- TRAPS ARE TO BE SUPPLIED WITH INTEGRAL STRAINERS.

REFERENCE DRAWINGS

COLD CHEMICAL PREP AND FEED SYSTEM P&ID'S

- 905-D-015
- 905-D-016
- 905-D-017
- 905-D-018

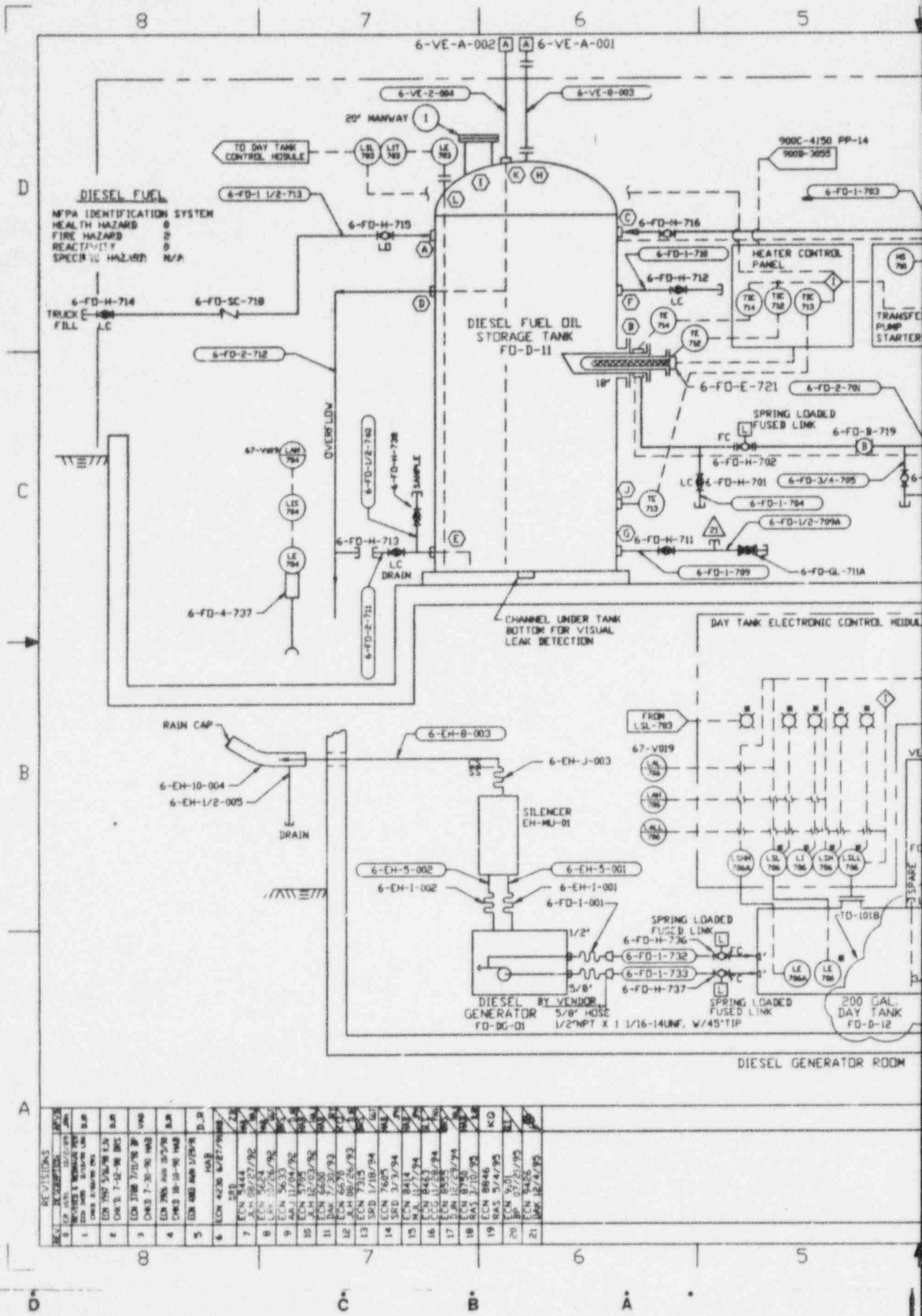
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FOR DRAWING INDEX SEE DRAWING NO.

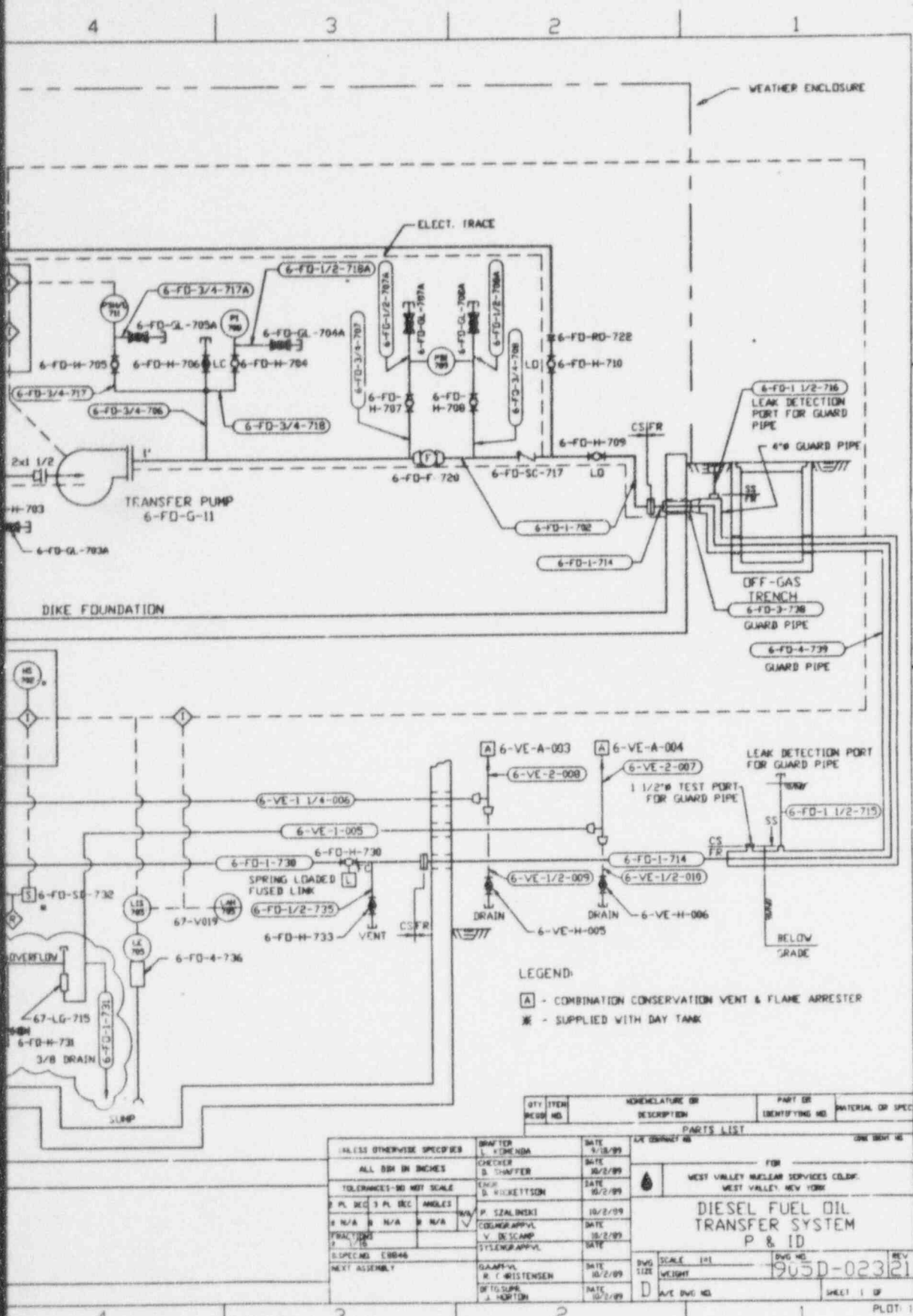
OWNER'S V-106 04	E BASCO SERVICES INCORPORATED	
PROJECT NO. 04-16-87	A/E D/F/S NO. 2286 FOR TASK ORDER NO.	
DESIGNED BY T. J. MORGAN	WEST VALLEY NUCLEAR SERVICES COMPANY, INC.	
CHECKED BY P. S. EDWARDS	WEST VALLEY, NEW YORK	
DATE 04-16-87	WEST VALLEY DEMONSTRATION PROJECT	
SCALE	P & ID	
PROJECT NO.	COLD CHEMICAL STEAM & CONDENSATE SYSTEM	
ISSUE NO.	ISSUE CODE NUMBER	DRAWING NO.
1		905D-019 14
PROJECT NO.	SCALE	DATE
ISSUED FOR CONSTRUCTION	SCALE	DATE

CAD DRAWING - Do not revise this original



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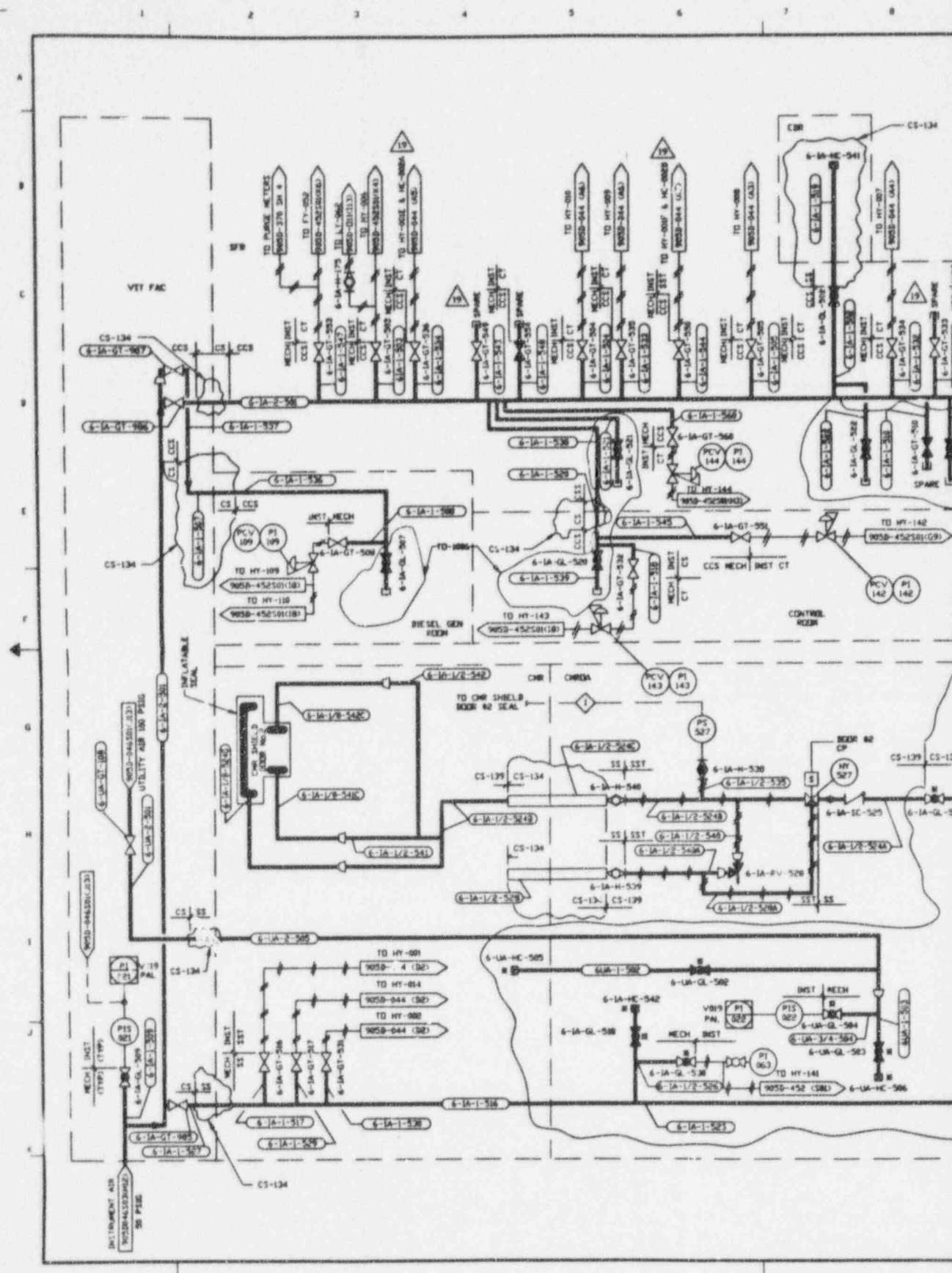


LEGEND:
 [A] - COMBINATION CONSERVATION VENT & FLAME ARRESTER
 * - SUPPLIED WITH DAY TANK

QTY	ITEM	SYMBOL	DESCRIPTION	PART OR IDENTIFYING NO.	MATERIAL OR SPEC.
			PARTS LIST		
			WEST VALLEY NUCLEAR SERVICES CORP. WEST VALLEY, NEW YORK		
			DIESEL FUEL OIL TRANSFER SYSTEM P & ID		
			SCALE 1/8" = 1'	DWG NO. 1905D-02321	REV
			DWG SIZE	WEIGHT	SHEET 1 OF
			AVE DWG NO.		

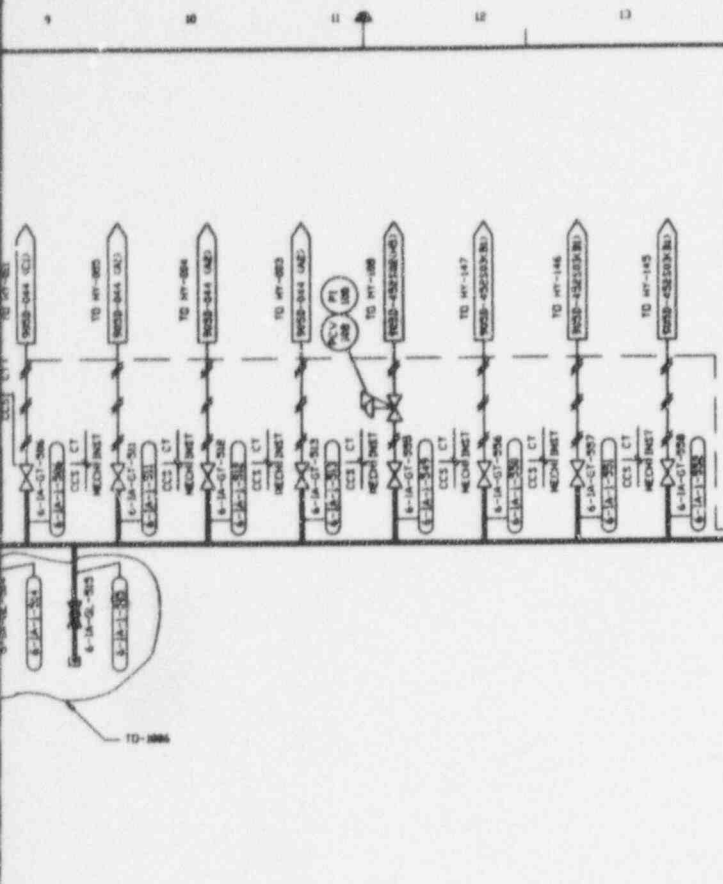
CAD DRAWING-DO NOT REVISE THIS ORIGINAL

9602210422 - 14



ENP1000

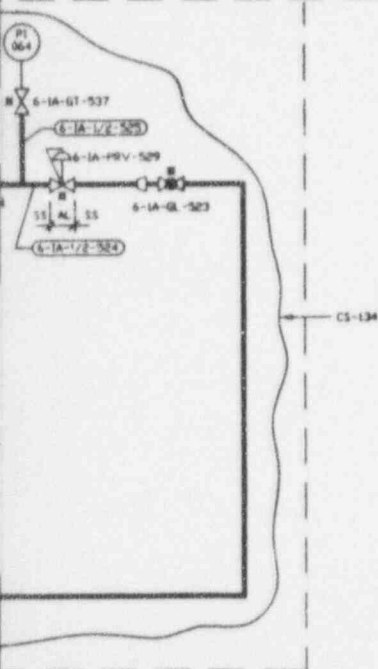
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NO	DATE	REVISION	DR	CH	APPROVED
0	7-15-89	CR 1649			JRH
14	4-19-94	REV'S PER ECR 7791	KGZ	HAB	ZZ
15	5-11-94	REV'S PER ECR 7478	H.A.	HAB	JCS
16	5/24/94	REV'S PER ECR 7822	H.A.	ED	RMB
17	11/3/94	REV'S PER ECR 3375	AAJ	BRS	CRB
18	5-3-95	REV'S PER ECR NDR-7191	JHS	GLS	RVM
19	10/25/95	REV'S PER ECR 9285	BP	KGZ	
7	7-2-92	REV'S PER ECR 4891	DAK	HAB	DJR
8	8-11-92	REV'S PER ECR 5095	VCK	HAB	DJR
9	8-21-93	REV'S PER ECR 5655	SBC	BRS	PAH
10	10-28-93	REV'S PER ECR 7817	KGZ	BRS	JRY
11	11-16-93	REV'S PER ECR 7880	H.A.	BRS	JRY
12	12-22-93	REV'S PER ECR 7961	PAH	HAB	GGT
13	1-24-94	REV'S PER ECR 7444	LAK	BRS	DJR

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REFERENCE DRAWINGS:

- P & ID VITRIFICATION FACILITY UTIL'Y AIR SYSTEM 905-D-046 S01
- P & ID VITRIFICATION FACILITY INSTRUMENT AIR SUPPLY 905-D-046 S03
- INSTRUMENT LOCATION ARRANGMENT DRAWINGS-HVAC SYSTEM 905-D-370 SH 1-7
- INSTRUMENT LOCATION ARRANGMENT DRAWINGS-VITRIFICATION FACILITY 905-D-378 SH 1-4

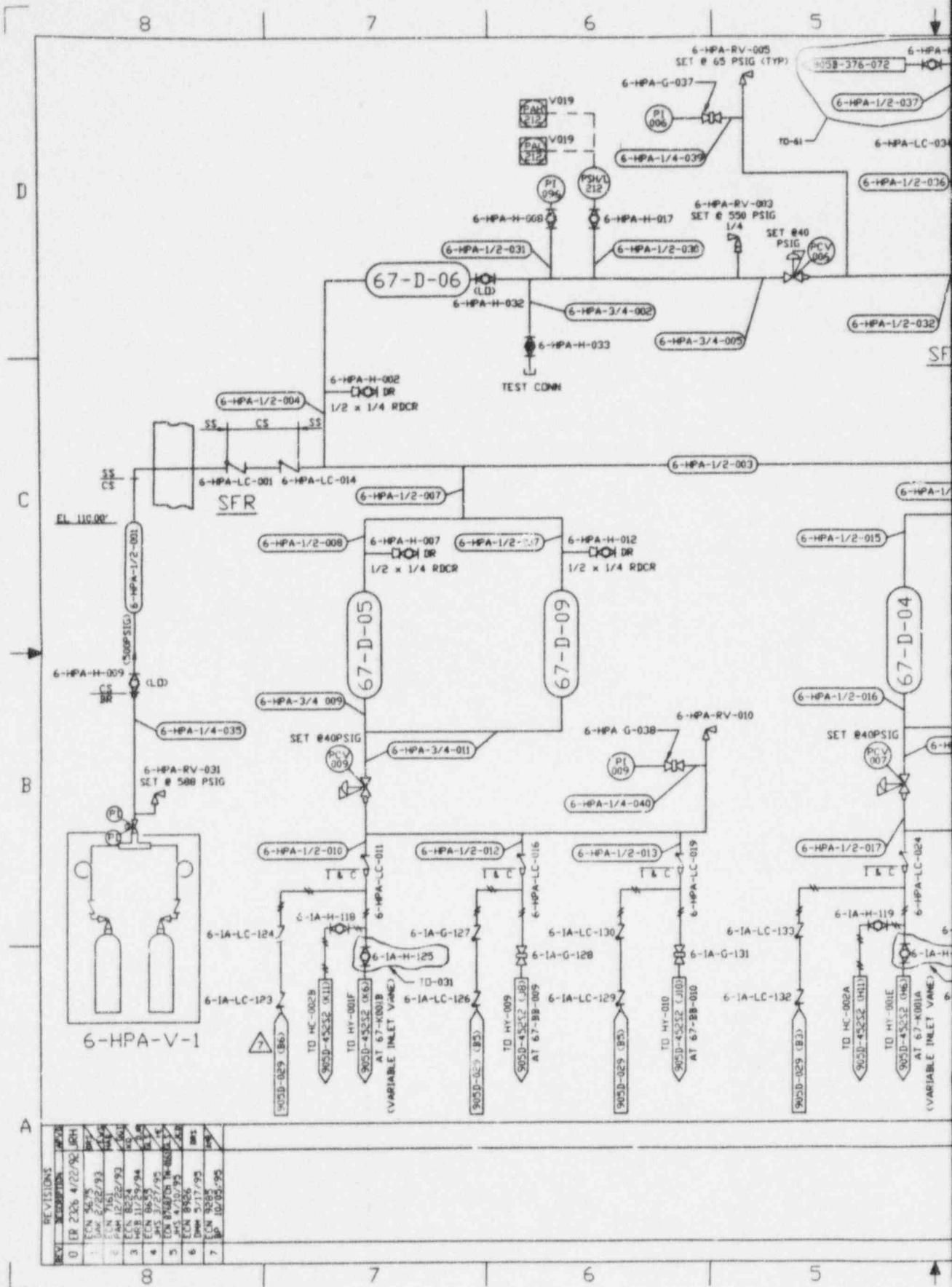
1. * DESIGNATES EXISTING EQUIPMENT

NOTES:

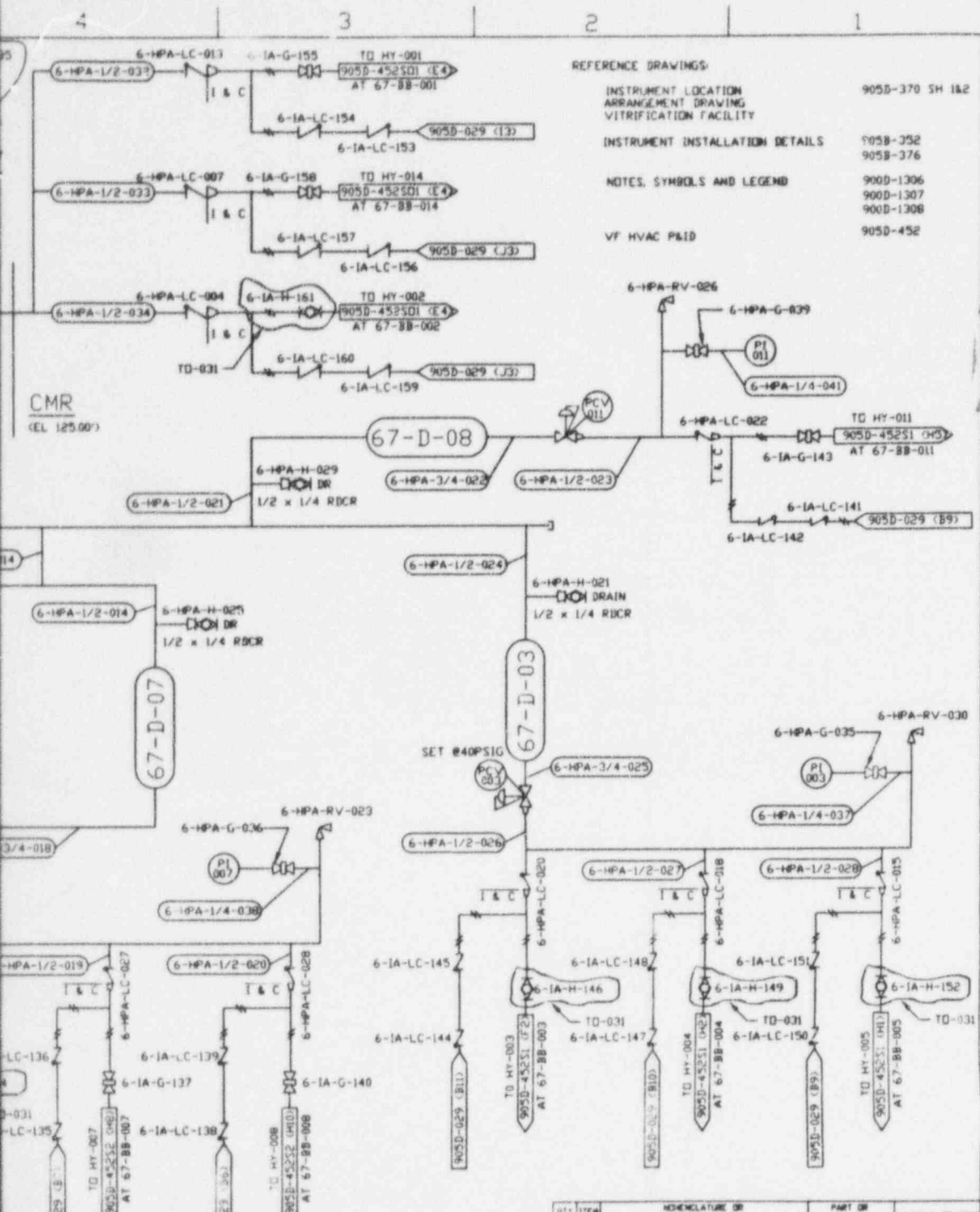
FOR DRAWING INDEX SEE DRAWING NO.

APPROVED BY: [Signature]	E-BASCO SERVICES INCORPORATED		
PROJECT NO:	REV. OF: NO. 2388	TASK ORDER 300	
DESIGNED BY: R.D. WEINGART 6/30/87	WEST VALLEY NUCLEAR SERVICES COMPANY, INC. WEST VALLEY, NEW YORK		
ENGINEER: P.S. KOWALCZYK 6/30/87			
CHECKED BY: R.S. KOVALCZYK 6/30/87	WEST VALLEY DEMONSTRATION PROJECT		
DESIGN: R.J. LEVARD 6/30/87	P & ID VITRIFICATION FACILITY INSTRUMENT & UTILITY AIR SYS		
DRAWN: T.J. KITZ 6/30/87			
DE-AC07-80N6 44139	SIZE: D	INDEX CODE NUMBER: 905D-029	REV: 19
PROJECT NO: 19-CV-10275	SCALE: NONE	SPEC. CODES:	AVE. SHEET NO: S01
DRAWING CONTACT NO:			

9602210422 -15



REV	DESCRIPTION	DATE	BY
0	ER 2/26/90	4/22/90	LRH
1	EN 3/2/90	3/2/90	LRH
2	EN 3/2/90	3/2/90	LRH
3	EN 3/2/90	3/2/90	LRH
4	EN 3/2/90	3/2/90	LRH
5	EN 3/2/90	3/2/90	LRH
6	EN 3/2/90	3/2/90	LRH
7	EN 3/2/90	3/2/90	LRH



REFERENCE DRAWINGS:

INSTRUMENT LOCATION ARRANGEMENT DRAWING	905D-370 SH 1&2
VITRIFICATION FACILITY	
INSTRUMENT INSTALLATION DETAILS	905B-352 905B-376
NOTES, SYMBOLS AND LEGEND	900D-1306 900D-1307 900D-1308
VF HVAC P&ID	905D-452

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CMR
(EL 125.00')

UNIT	ITEM	DESCRIPTION OR NOMENCLATURE OR	PART OR IDENTIFYING NO.	MATERIAL OR SPEC.
------	------	--------------------------------	-------------------------	-------------------

PARTS LIST

UNLESS OTHERWISE SPECIFIED	DRAWN BY	DATE	APPROVED BY	DATE
ALL DIM IN INCHES	B. KUREK	11/5/91		
TOLERANCES: Ø IN NOT SCALE	CHECKED BY	DATE		
Ø .015, .030, .060 ANGLES	D. SHAMFER	1/15/92		
Ø .015, .030, .060 ANGLES	B. RICKETTSON	4/11/92		
Ø .015, .030, .060 ANGLES	DESIGNED BY	DATE		
Ø .015, .030, .060 ANGLES	T. COITZELL	4/25/92		
Ø .015, .030, .060 ANGLES	SYSTEM APPROVAL	DATE		
Ø .015, .030, .060 ANGLES	D. METZLER FOR PAS	4/22/92		
Ø .015, .030, .060 ANGLES	DESIGNED BY	DATE		
Ø .015, .030, .060 ANGLES	B. SUGARS	4/25/92		
Ø .015, .030, .060 ANGLES	BY TO SUPER	DATE		
Ø .015, .030, .060 ANGLES	J. HORTON	4/25/92		

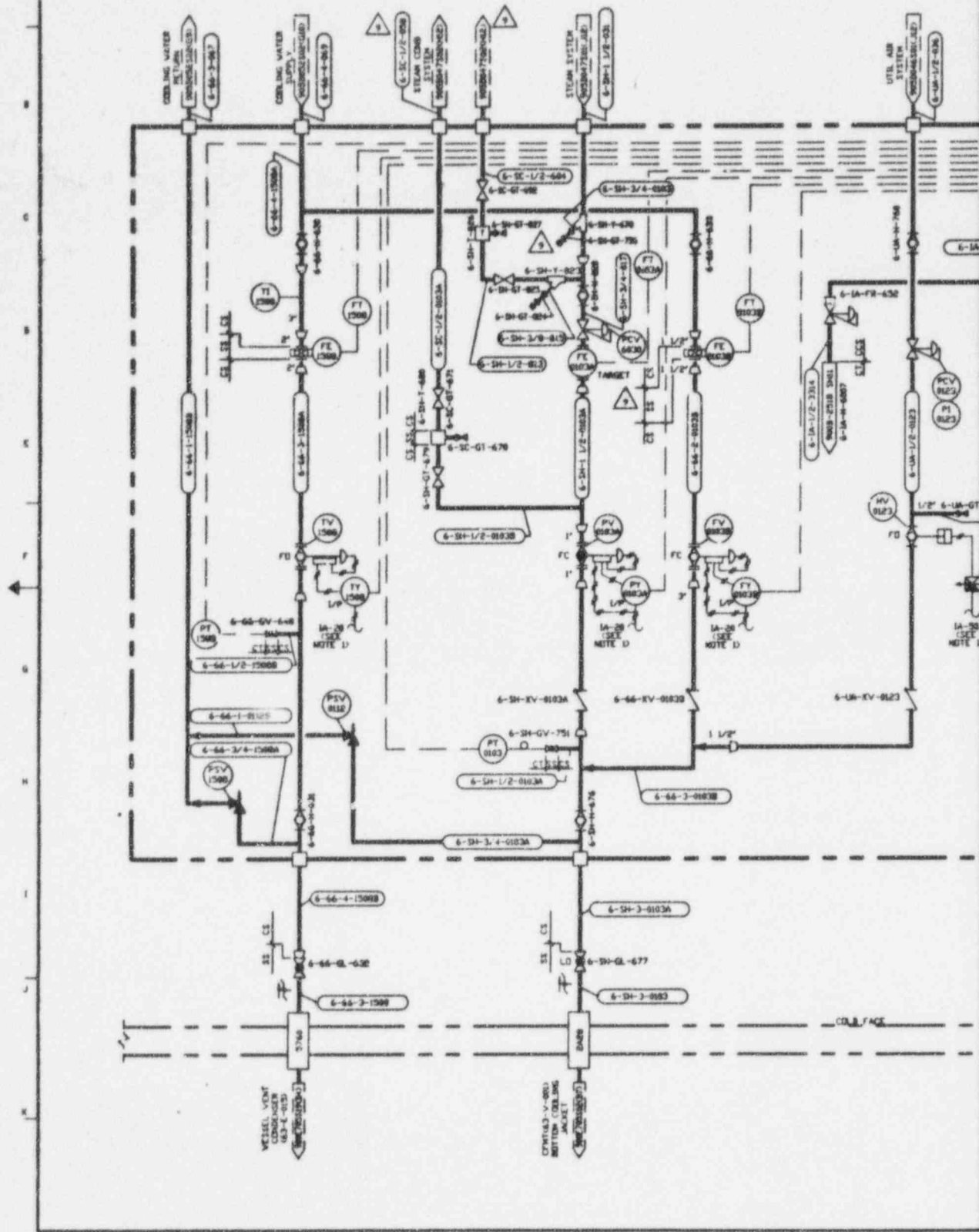
WEST VALLEY NUCLEAR SERVICES COLING
WEST VALLEY, NEW YORK

VITRIFICATION FACILITY
SFR & CMR HIGH PRESSURE AIR SYSTEM
PIPING AND INSTRUMENTATION DIAGRAM

DWG NO.	905D-044
SHEET	1 OF 1

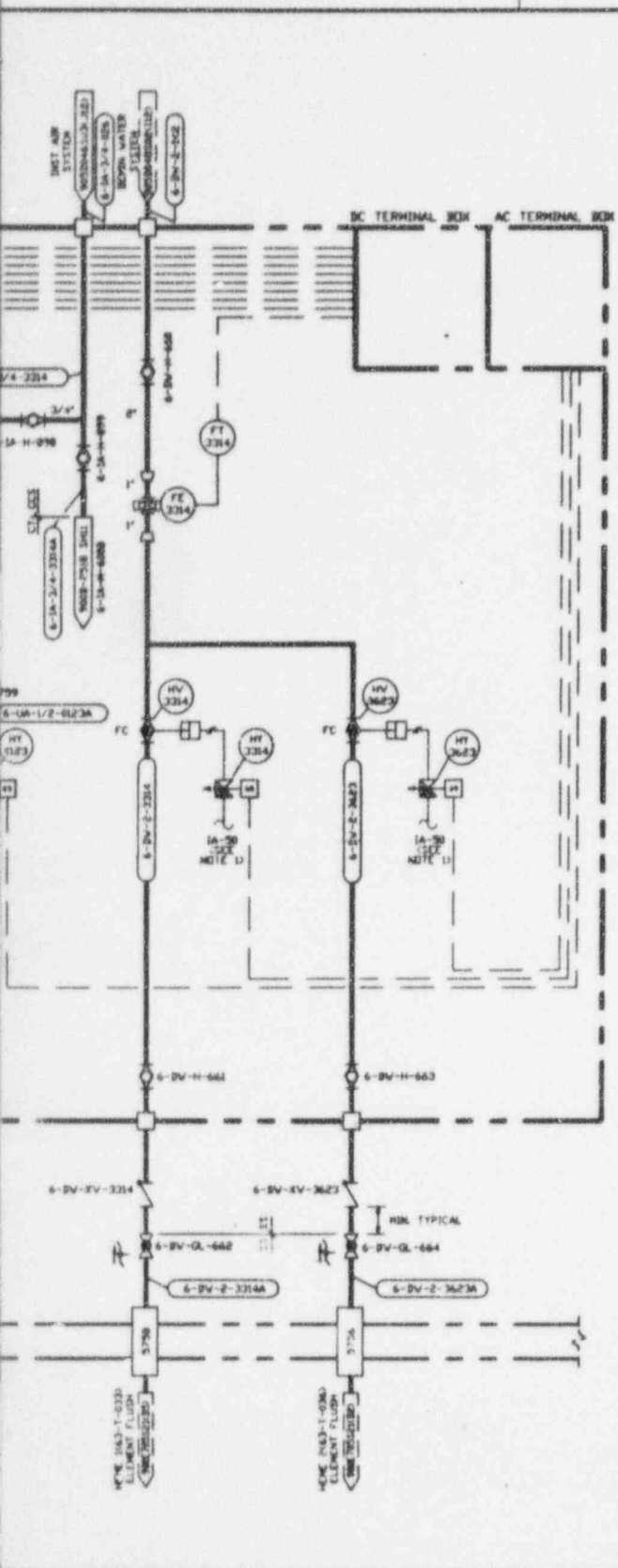
CAD DRAWING-DO NOT REVISE THIS DRAWING

905-D-045 S15



905-D-045 1:100

1 2 3 4 5 6 7 8
A B C D E F G H I J K



NO.	DATE	REVISIONS	DR	CH	APPROVED
B	9-25-89		DR	R.A.	R.A. A.J.B. HDV
GENERAL REVISIONS INCLUDING TO 767					
C	2-16-89		R.A.	J.V.	R.A. F.R. F.E.S.
GENERAL REVISIONS					
8	6-12-89	ECH 1628			JRH
7	5/12/89	ECH 8981	RAS	KD	
6	6/6/89	ECH 8968	A.H.	KD	
5	10/25/89	ECH 9245	LRP	KD	
4	2/6/89	REV PER ECH 8979	R.A.	KD	RAA
3	4/28/89	REV PER FOR ECH-1361	R.A.	GLS	RHE E
2	3/1/89	ECH 8984	A.H.	GLS	RHE E

NOTES:

- 1. 1A-20 AND 1A-50 AIR SERVICE FROM MANIFOLDS. 6-1A-N-6007 AND 6-1A-N-6008, SEE DETAIL 900B-2510 SH II.

REFERENCE DRAWINGS:

P&ID W/F CLOSED LOOP COOLING WATER SYSTEM. 905-D-052.

ANSTEC APERTURE CARD

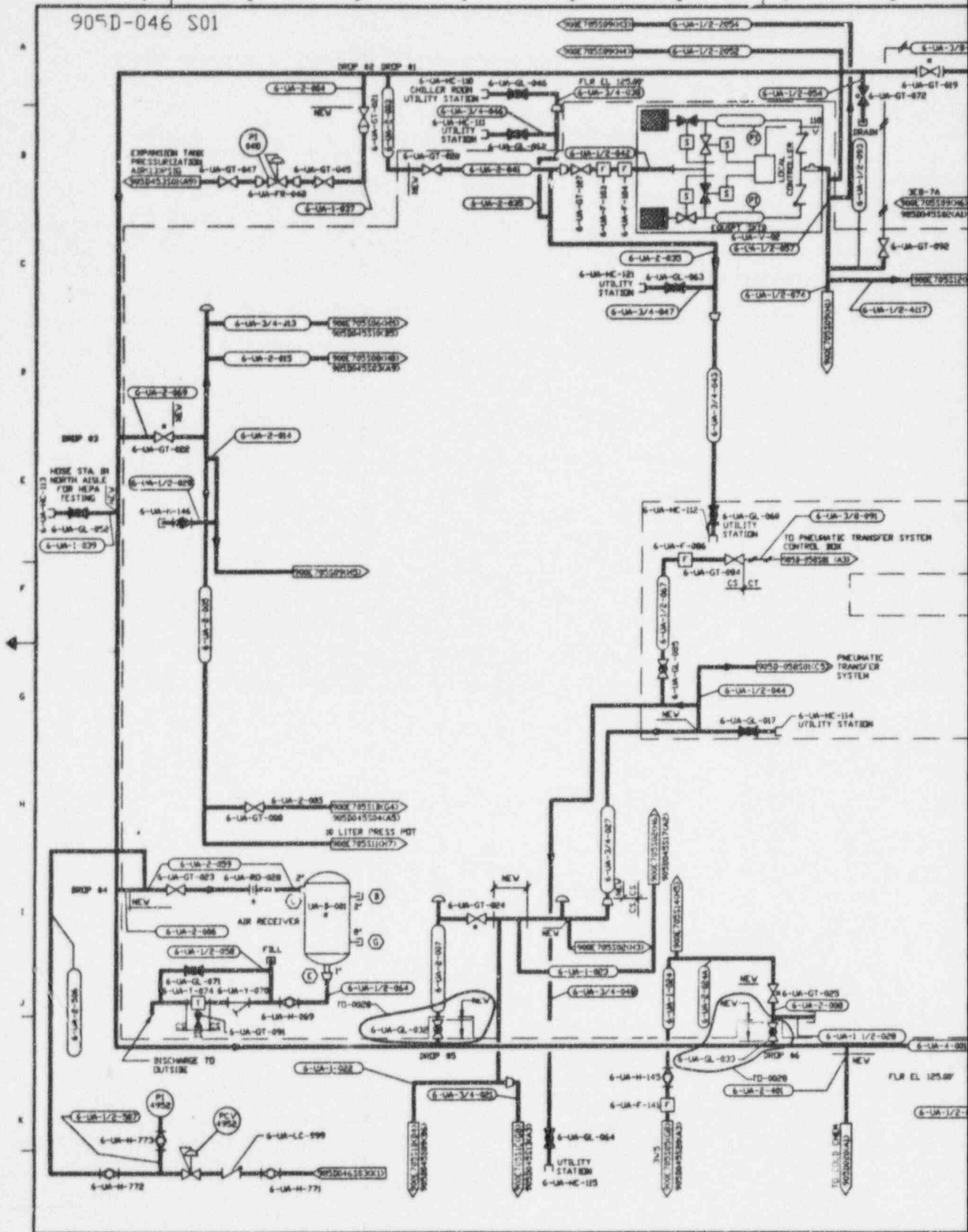
Also Available on Aperture Card

FOR DRAWING INDEX SET DRAWING

APPROV. VVNS GIL	EBCSD SERVICES INCORPORATED		
PROJECT NO. 93-10-00	REV. NO. 0228	FOR TASK ORDER 002	
CHARGER SUPV. ALLI DIFL DFFD	WEST VALLEY NUCLEAR SERVICES COMPANY, INC. WEST VALLEY, NEW YORK		
LEAD TECH ENGR. S. HATH	WEST VALLEY DEMONSTRATION PROJECT		
DESIGNER. M. KUSHSHLANE	P & ID VITRIFICATION FACILITY INSTRUMENT RACK 3W1		
CHECKER. R.L. LEWIS	DATE 03-10-89		
DR. T.J. KITZ	DATE 03-10-89		
DR. ACCT. STATE 44129	SCALE	INDEX CODE NUMBER	DRAWING NO. REV
PROJECT NO. 93-10-02275	D	905D-045	9
CONTRACT NO.	SCALE	SPEC. CODES	AS. SHEET NO. 905-D-045 S15 C
CLASS. FOR CONSTRUCTION	SCALE NONE		

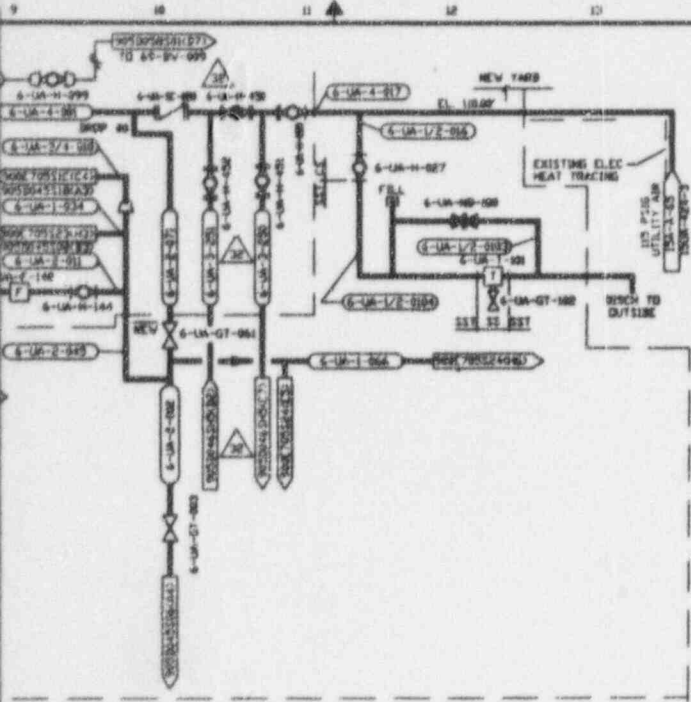
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905D-046 S01



C946.000 1-1.00

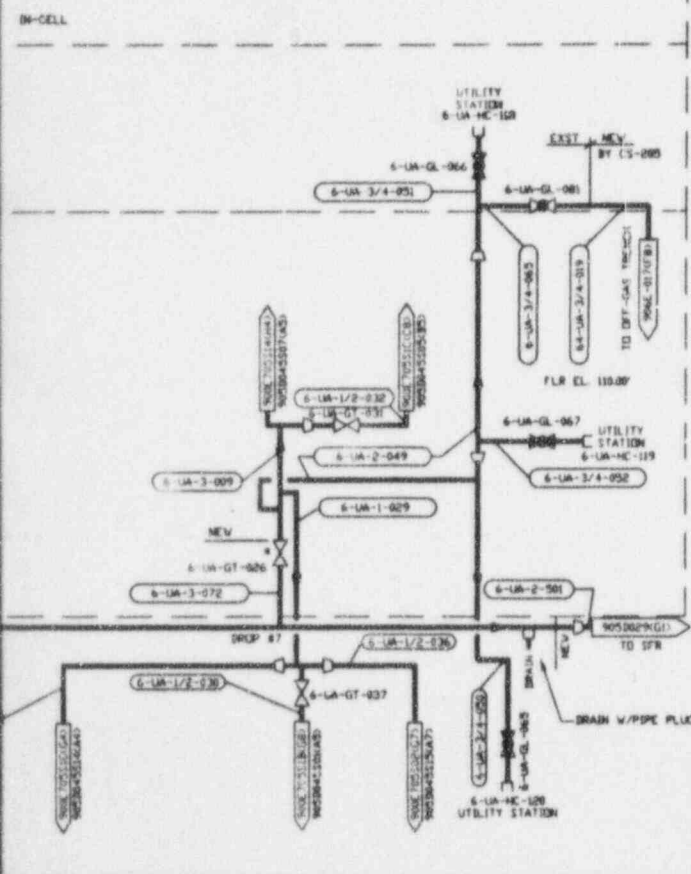
D C B A
1 2 3 4



NO.	DATE	PROVISIONS	DR	CH	APPROVED
B	8/23/96	GENERAL REVISION	BFR	R.A.	AC
C	6-29-95	GENERAL REVISION	P.A.	AC	R.A.
D	7-13-89	CR1646			JRH
E	8/11/94	REVISED PER ECR 7905	H.A.	ADA	PAH
F	11-15-94	REVISED PER ECR 8275	AAJ	BRS	CRB
G	12/16/94	REVISED PER ECR 8646	KSD	GLS	JPS
H	2/8/95	GEN REV PER ECR 8579	H.A.	KB	PAH
I	6/15/95	REVISED PER ECR 9020	LAK	BRS	
J	8/30/95	REVISED PER ECR 9025	AAJ	GLS	
K	10/2/95	REVISED PER ECR 9066	H.A.	KB	
L	11/6/95	REVISED PER ECR 9374	BAI		
M	3/30/96	REVISED PER ECR 4937	LAK	HAB	B.JR
N	5/8/96	REVISED PER ECR 7044 REVISED PER ECR 5880	CCR	BRS	B.JR
O	6/25/96	REVISED PER ECR 5190	A.JH	HAB	B.JR
P	09/25/96	GEN REV PER ECR 5690	SRC	HAB	PAH
Q	10/16/96	REVISED PER ECR 5295	SRO	BRS	ZD
R	1/4/97	REVISED PER ECR 5320	GH	BRS	R.VN
S	1/21/97	REVISED PER ECR 5781	GH	BRS	B.JR
T	1/25/97	REVISED PER ECR 5445	SRC	BRS	
U	03/09/97	REVISED PER ECR 5906	SRC	HAB	PAH
V	03/22/97	REVISED PER ECR 6854	SRC	HAB	PAH
W	10/7/97	REVISED PER ECR 6830	AAJ	HAB	PAH
X	10/14/97	REVISED PER ECR 6250	DKK	BRS	R.VN
Y	11/30/97	REVISED PER ECR 6180	A.JD	HAB	PAH
Z	2/18/98	REV PER ECR 7520 & 7525	HJC	HAB	PAH
AA	3/3/98	REV PER ECR 7425	H.A.	HAB	PAH
AB	3/16/98	REV PER ECR 7425	A.JD	HAB	PAH

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REFERENCE DRAWINGS:

SYMBOLS, NOTES & LEGEND	900-D-1306
SYMBOLS, NOTES & LEGEND	900-D-1307
SYMBOLS, NOTES & LEGEND	900-D-1308
P & ID VITRIFICATION FACILITY	
UTILITY & INSTRUMENT AIR SYS	905-D-029
P & ID COLD CHEMICAL	
UTILITY & INSTRUMENT AIR SYS	905-D-020
INSTRUMENT INSTALLATION DETAILS	905-B-376

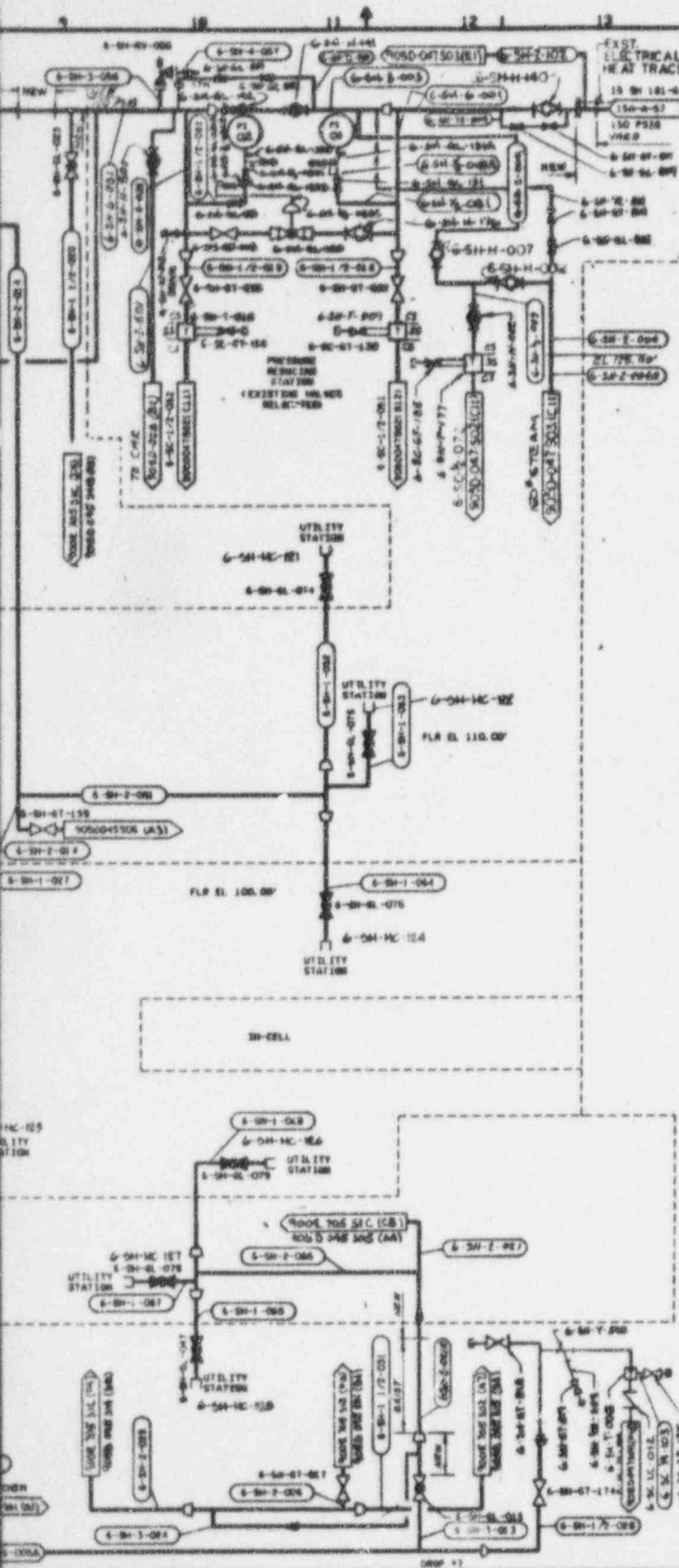
NOTES:

1. A SINGLE ASTERISK (*) INDICATES EXISTING VALVES AND EQUIPMENT TO BE RETAINED.

FOR DRAWING INDEX SEE DRAWING NO.		E BASCO SERVICES INCORPORATED	
APPROVED	DATE	BY	DATE
R. LEVND	01-02-98	R.A. LEVND	01-02-98
CHECKED	DATE	CHECKED	DATE
R.A. LEVND	01-02-98	R.A. LEVND	01-02-98
DRAWN	DATE	DRAWN	DATE
T.A. KITZ	01-02-98	T.A. KITZ	01-02-98
DC-AC07-BLUE 44139	STATE	INDEX CODE NUMBER	DRAWING NO.
19-CMV-02275	D		905-D-046
ISSUED FOR CONSTRUCTION	SCALE	SPEC CODES	REV
	AS SHOWN		32
		AVE SHEET NO.	
		905-D-046	S01 C

CAD DRAWING-DO NOT REVISE THIS ORIGINAL

9602210422 - 18



NO.	DATE	REVISION	DR	CH	APPROVED
0	06-13-88	GENERAL REVISION	TJR	RJL	[Signature]
1	6-28-89	GENERAL REVISION	[Signature]	[Signature]	[Signature]
2	7-13-89	ECN 9251	[Signature]	[Signature]	[Signature]
19	9-20-95	ECN 9251	QW	[Signature]	[Signature]
20	10-3-95	REV PER ECN 9345	[Signature]	KQ	[Signature]
21	10-27-95	ECN 9345	LRP	KQ	[Signature]
15	12-18-89	REV PER ECN 9251	[Signature]	[Signature]	[Signature]
16	2-8-95	GAS REV ECN 8879	QW	KQ	[Signature]
17	4-24-95	REV PER ECN 8878	PD	[Signature]	[Signature]
18	7-7-95	ECN 9251	QW	[Signature]	[Signature]

REFERENCE DRAWINGS:
 NOTES, SYMBOLS & LEGEND 900-0-1306
 NOTES, SYMBOLS & LEGEND 900-0-1307
 NOTES, SYMBOLS & LEGEND 900-0-1308
 P & ID VITRIFICATION FACILITY STEAM SYSTEM 905-0-128
 INSTRUMENT INSTALLATION DETAILS 905-0-536

- NOTES:**
1. A SINGLE ASTERISK (*) INDICATES EXISTING VALVES AND EQUIPMENT TO BE RETAINED.
 2. OMITTED

ANSTEC APERTURE CARD
 Also Available on Aperture Card

ECN(S) PENDING
 9381-49468

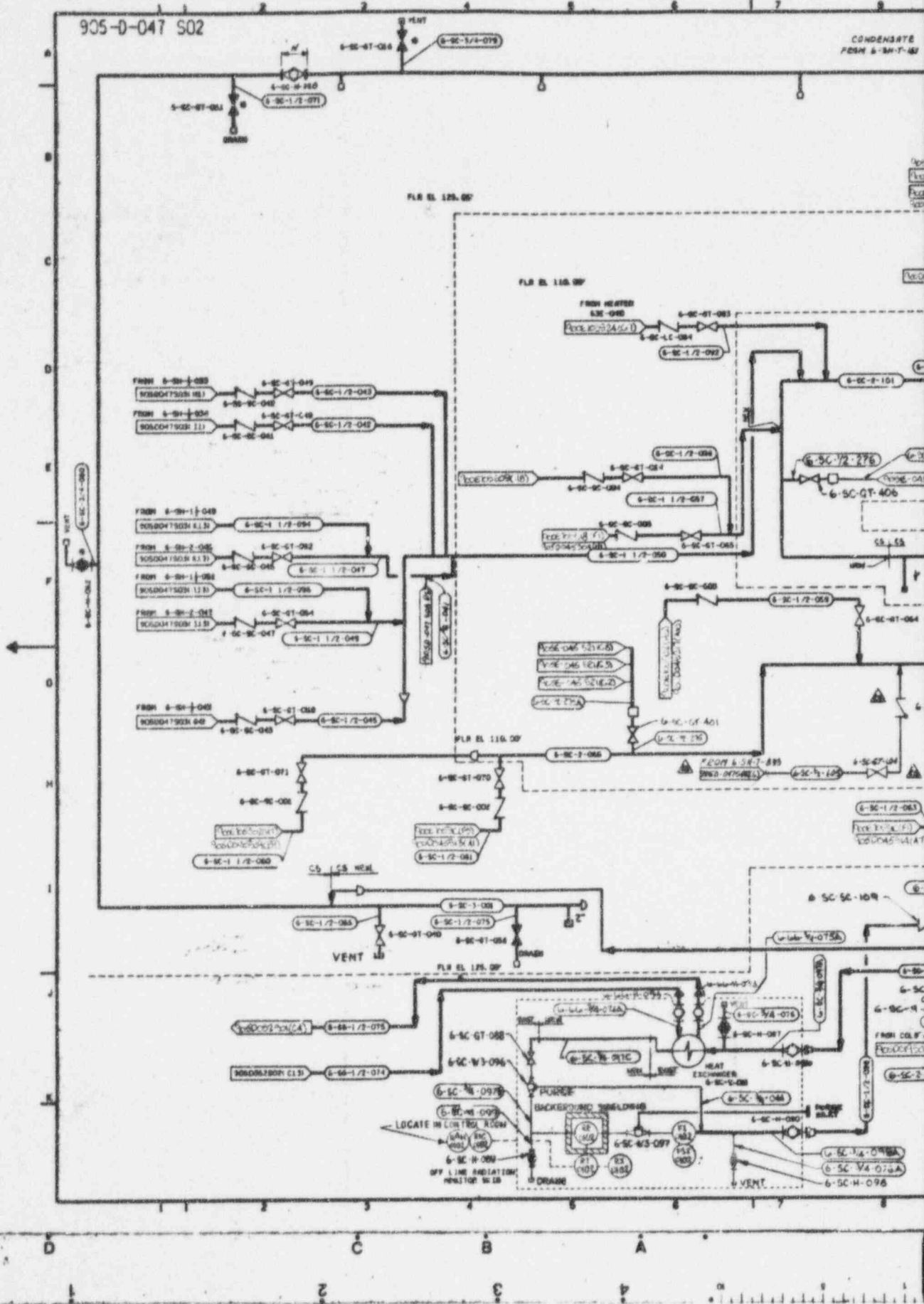
WVNS APPROVAL	
COG. MGR.	[Signature]
COG. ENGR.	[Signature]
Q.A. MGR.	[Signature]
P.R.S. MGR.	[Signature]

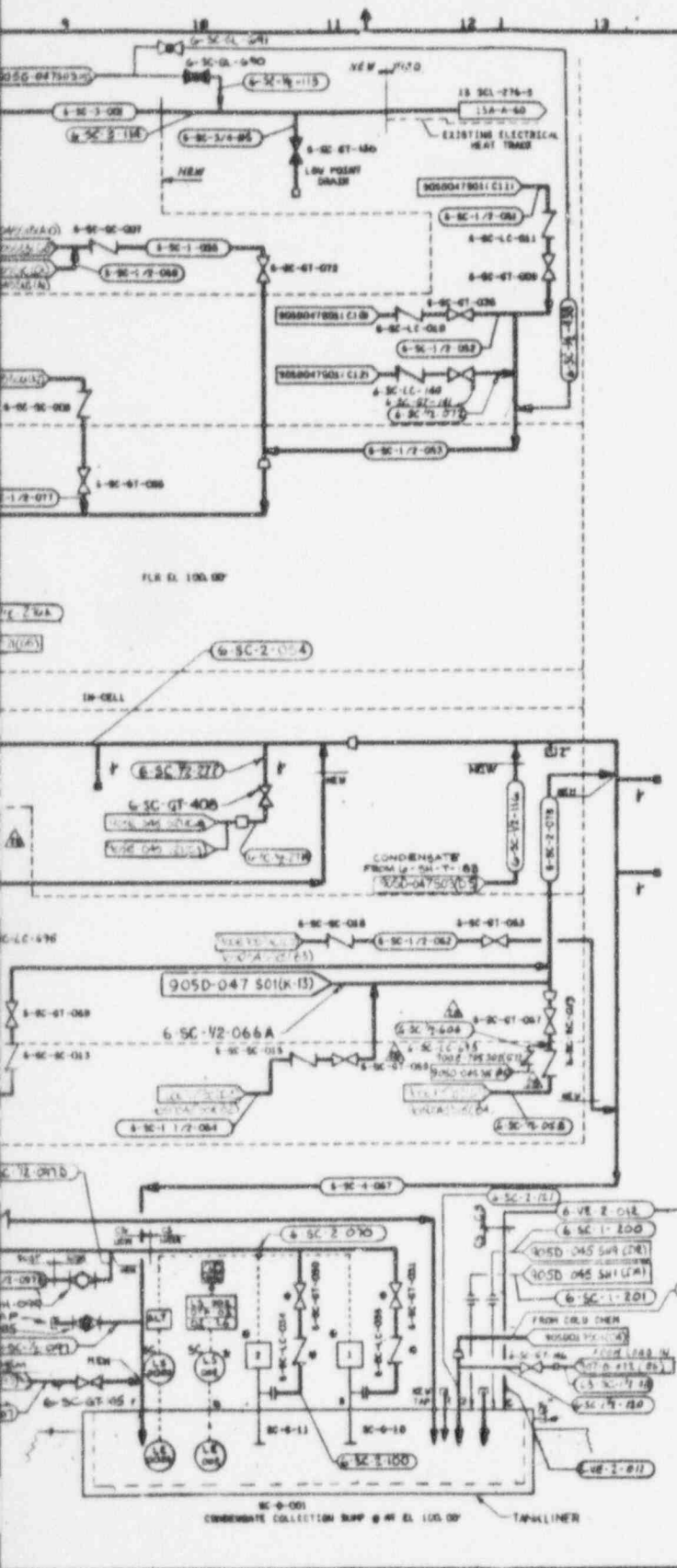
FOR DRAWING INDEX SEE DRAWING NO.

APPROV. WVNS CO.	EBASCO SERVICES INCORPORATED
PROJECT MGR.	AVE. & F.S. W. 2288, 780
ENGINEER	WEST VALLEY NUCLEAR SERVICES COMPANY, INC.
LEAD DISE. ENGR.	WEST VALLEY DEMONSTRATION PROJECT
REVISION	P & ID VITRIFICATION FACILITY STEAM SYSTEM
PROJECT NO.	905D-047
SCALE	AS SHOWN

905-D-047 S02

CONDENSATE
FORM 6-SH-T-40





NO.	DATE	REVISION	DR	CH	APPROVED
B	10-21-88	GENERAL REVISION	DR	CH	APPROVED
C	4-28-89	GENERAL REVISION	DR	CH	APPROVED
D	7-13-89	REV 1444	DR	CH	APPROVED
ZB	10-31-90	REV/ECN 9946	DR	CH	APPROVED
20	2-17-95	REV/ECN 9946	DR	CH	APPROVED
21	4-24-95	REV/ECN 9946	DR	CH	APPROVED
22	5-5-96	REV/ECN 9946	DR	CH	APPROVED
23	5-22-95	REV/ECN 9946	DR	CH	APPROVED
24	7-7-96	REV/ECN 9946	DR	CH	APPROVED
25	8-7-95	ECN 9078	DR	CH	APPROVED
26	8-22-95	ECN 9078	DR	CH	APPROVED
27	9-16-95	ECN 9078	DR	CH	APPROVED

NOTES, SYMBOLS & LEGEND 900-0-1306
 NOTES, SYMBOLS & LEGEND 900-0-1307
 NOTES, SYMBOLS & LEGEND 900-0-1308

REFERENCE DRAWINGS:

NOTES:

1. A SINGLE ASTERISK (*) INDICATES EXISTING VALVES AND EQUIPMENT TO BE RETAINED.
2. FOR COND. SUMP PUMP CWD, SEE DRAWING 905B-305 SH 130

ANSTEC APERTURE CARD
 Also Available on Aperture Card

ECN 9439

WVNS APPROVAL

CDC WOR: [Signature]
 CDC ENGR: [Signature]
 DRET SUPR: [Signature]
 QA WOR: [Signature]
 RES WOR: [Signature]

FOR DRAWING INDEX SEE DRAWING NO.

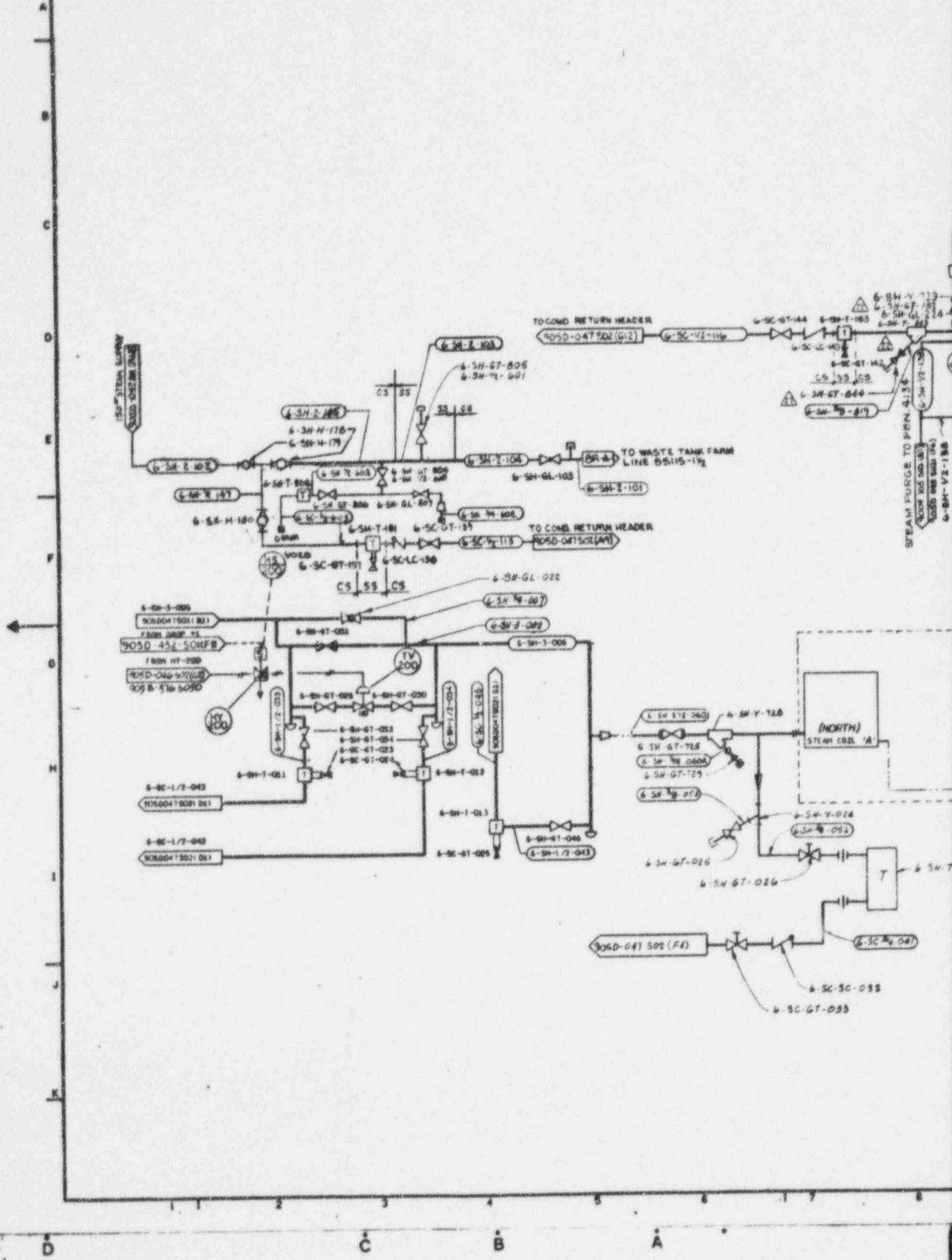
APPROV WVNS CO.	EBASCO SERVICES INCORPORATED
PROJECT NO.	WEST VALLEY NUCLEAR SERVICES COMPANY, INC
DESIGNER	WEST VALLEY DEMONSTRATION PROJECT
CHECKED	P & ID
DATE	VITRIFICATION FACILITY
SCALE	CONDENSATE SYSTEM
DRAWING NO.	905D-047 28
SHEET NO.	805-0-047 S02 R

NUMBER

DRAWING NUMBER

DRAWING NUMBER

905-D-047 S03



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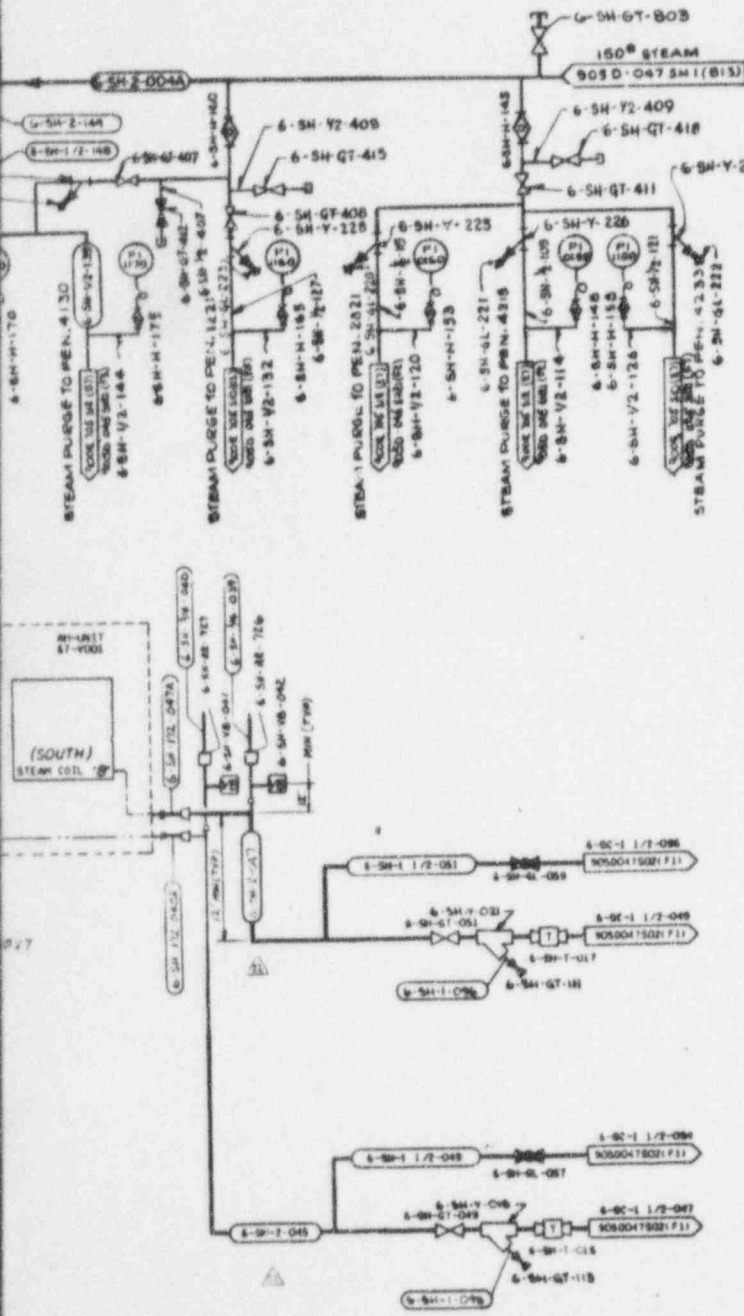
NO.	DATE	REVISION	DR	CH	APPROVED
0	7/15/84	ER 1046			
21	9/27/95	ECN 9211	PD	KG	
22	11/7/95	REV ECN 9585, 9376	PD	OC	CEB
23	04-14-94	REV O FOR ECN 127357	PD	KG	
13	8-8-76	REV/ECN 7459	PD	HTJ	NAJ
14	2-8-95	ECN 8574, 201, 100, 100	DR	KQ	
15	2-21-95	REV PER ECN 7555	JH	KG	
16	5-4-95	REV ECN 8881	PD	KQ	NAJ
17	5-19-95	ECN 8911	PD	KQ	
18	6-6-95	ECN 8890	PD	OC	
19	6-8-95	ECN 9032	CAV	OC	
20	7-11-95	ECN 9074	PD	GLP	

REFERENCE DRAWINGS:

- NOTES, SYMBOLS & LEGEND 900-0-1306
- NOTES, SYMBOLS & LEGEND 900-0-1307
- NOTES, SYMBOLS & LEGEND 900-0-1308
- INSTRUMENT INSTALLATION DETAILS 905-B-5

NOTES:

- 1. A SINGLE ASTERISK (*) INDICATES EXISTING VALVES AND EQUIPMENT TO BE RETAINED.



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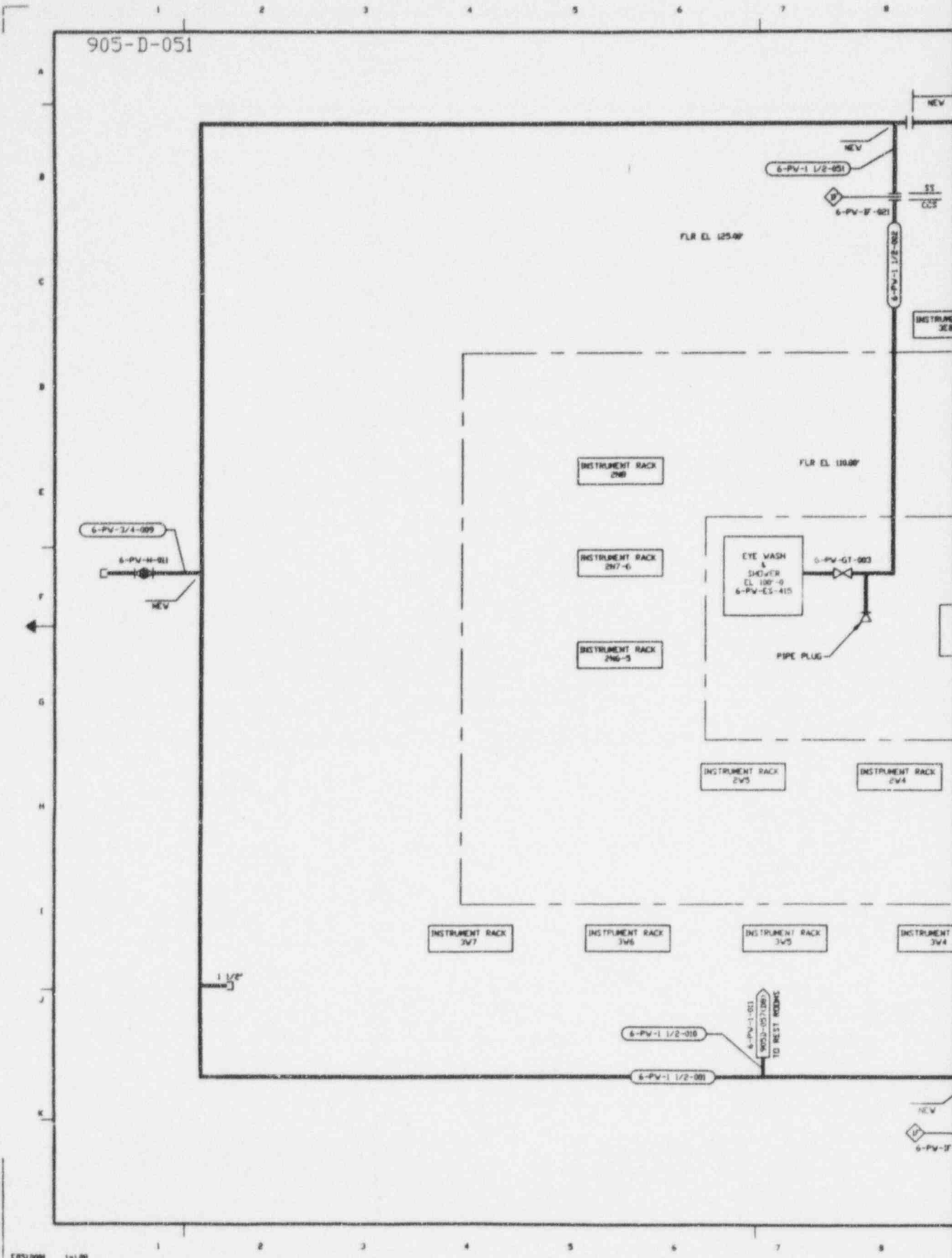
WVNS APPROVAL

DEC. MGR. *[Signature]*
 DEC. ENGR. *[Signature]*
 SUP. SUPR. *[Signature]*
 I.A. MGR. *[Signature]*
 I&S MGR. *[Signature]*

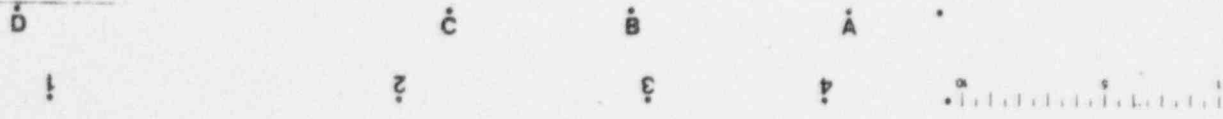
FOR DRAWING INDEX SEE DRAWING NO.

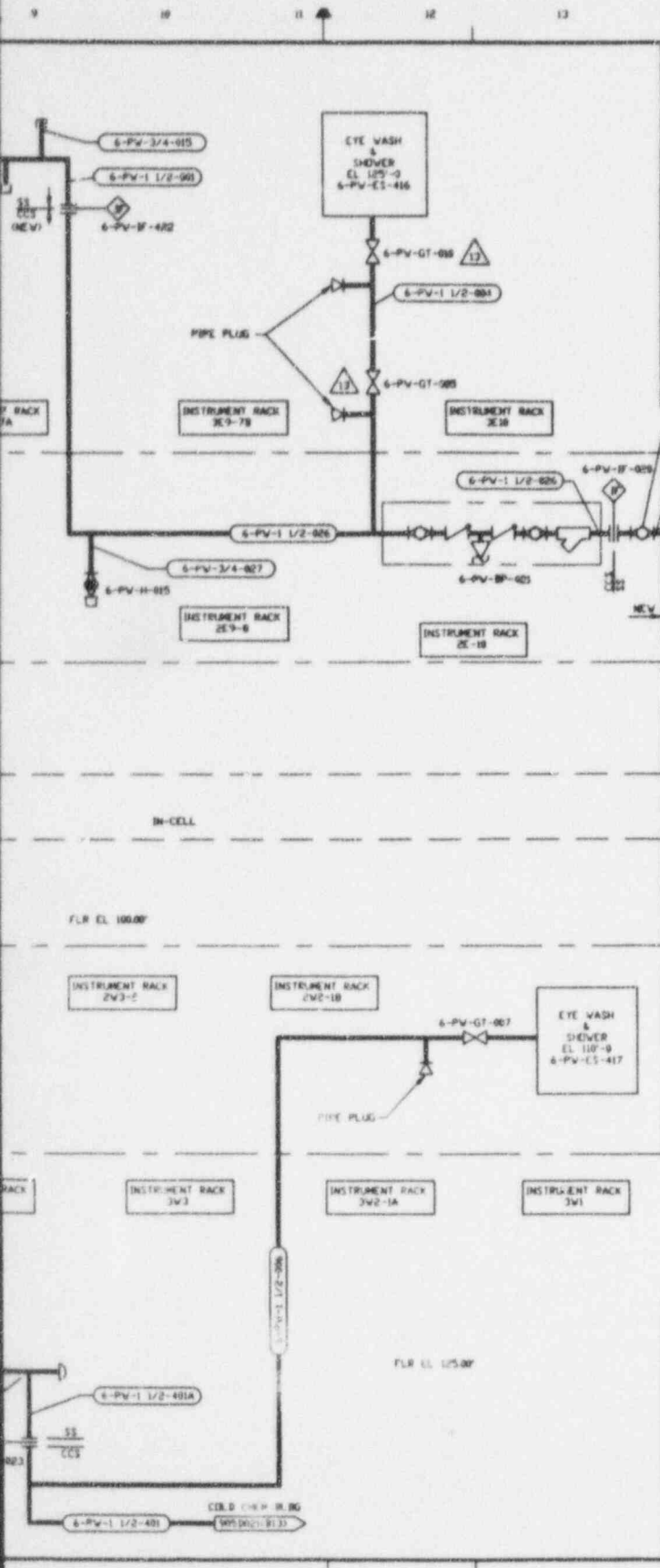
APPROV. WVNS CO.	EBASCO SERVICES INCORPORATED
PROJECT NO.	A/S S.F.S. NO. 2288
ENGINEER	TABR ORDER 030
DESIGNER	WEST VALLEY NUCLEAR SERVICES COMPANY, INC
CHECKER	WEST VALLEY, NEW YORK
DATE	WEST VALLEY DEMONSTRATION PROJECT
SCALE	P & ID
ISSUES FOR CONSTRUCTION	VITRIFICATION FACILITY
	STEAM SYSTEM
	DRAWING NO. 905D-047 22
	SCALE 1" = 30'

905-D-051



1" = 1'-00"





NO.	DATE	REVISION	DR	CH	APPROVED
B	10/25/90	GENERAL REVISION	BFD	R.A.	F.S.K. HDV
C	4/28/91	GENERAL REVISION	BFD	CHR	R.A. CHR F.S.K.
D	7/12/91	CR 1046			JRH
1	12/1/89	REV. PER ECR 3087	CGR	DRS	RPV
2	1/23/90	REV. PER ECR 3426	LJK	PAN	DJR
3	2/15/90	REV. PER ECR 3463	LJK	DRS	DJR
4	4/18/90	REV. PER ECR 3523	LJK	DRS	DJR
5	6/4/90	REV. PER ECR 3602	JR	F.K.	DJR
6	12/16/91	REV. PER ECR 4667	SRC	DRS	DJR
7	01/13/92	REV. PER ECR 4695	SRC	HAB	DJR
8	9/29/92	REV. PER ECR 5259	SRD	DRS	ZB
9	12/1/92	REV. PER ECR 5623	AAJ	DRS	DJR
10	4/19/94	REV. PER ECR 7028	AAJ	HAB	JPH
11	5/16/94	REV. PER ECR 7225	R.L.	KD	ERB
12	09/22/94	REV. PER ECR WF-2B-2489	HAB	APA	DJR
13	11/6/95	REV. PER ECR 9374	SRC	DRS	

ANSTEC APERTURE CARD

Also Available on Aperture Card

REFERENCE DRAWINGS:

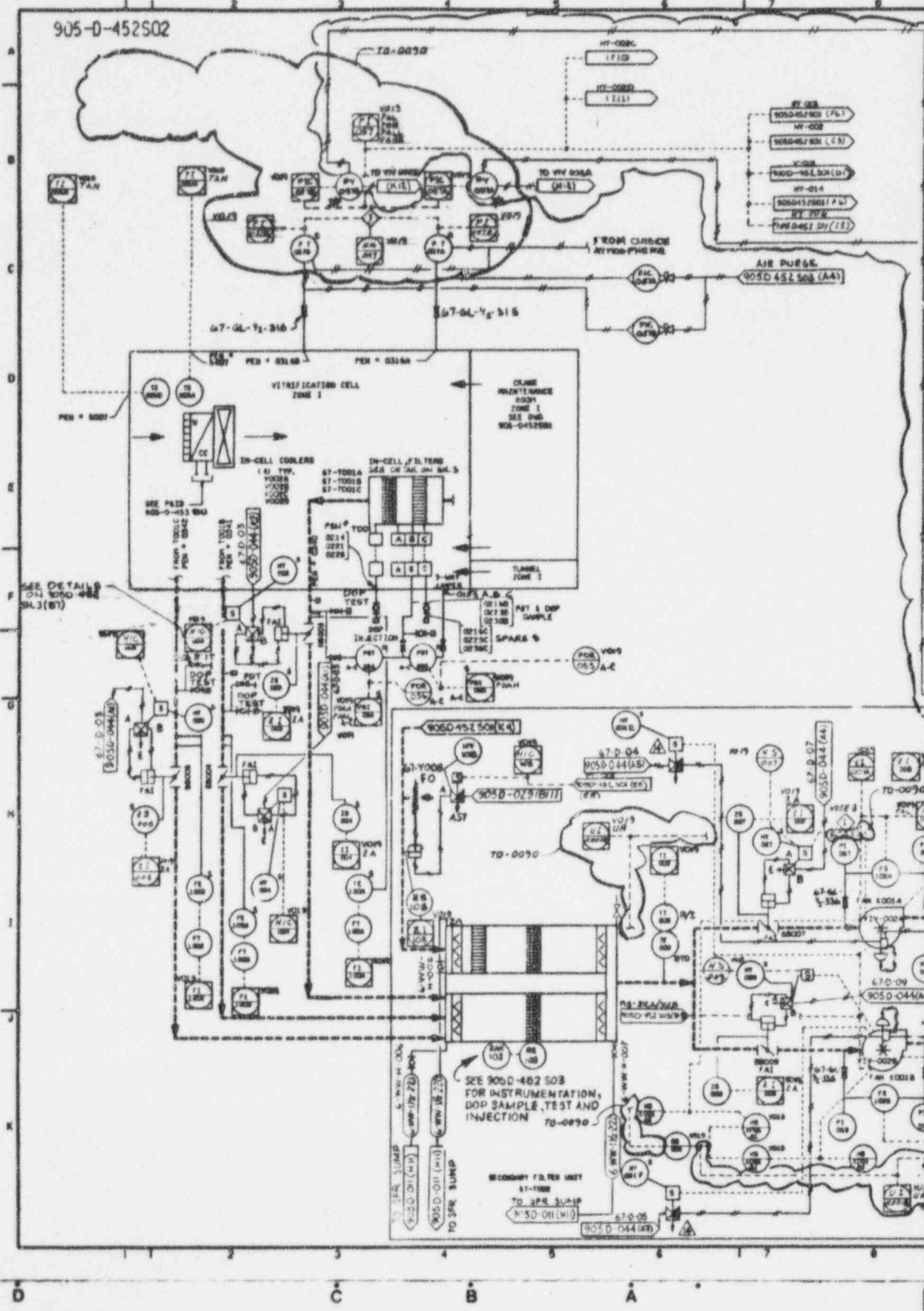
- SYMBOLS, NOTES & LEGEND 900-D-1306
- SYMBOLS, NOTES & LEGEND 900-D-1307
- SYMBOLS, NOTES & LEGEND 900-D-1308
- P & ID COLD CHEM WATER SYSTEMS 905-D-021

FOR DRAWING INDEX SEE DRAWING NO.		ESASCO SERVICES INCORPORATED	
APPROV. VVVE 02	DATE OF S. 08 2380	FOR TASK ORDER 002	
PROJECT NO.	08-19-88	WEST VALLEY NUCLEAR SERVICES COMPANY, INC. WEST VALLEY, NEW YORK	
ENGINEER 0207	08-19-88	WEST VALLEY DEMONSTRATION PROJECT	
P. E. REVIEW 0210	08-19-88	P & ID VITRIFICATION FACILITY POTABLE WATER SYSTEM & NATURAL GAS	
LEAD SDC 0204	08-19-88	DRAWING NO. 905-D-05113	
F. CHECKER	08-19-88	REV. 13	
DESIGNER	08-19-88	SCALE: AS SHOWN	
CHECKER	08-19-88	SHEET NO. 8	
DATE	08-19-88	SHEET NO. 8	
NO. 0007-01HE 44159	08-19-88	SHEET NO. 8	
NO. 0007-0275	08-19-88	SHEET NO. 8	
NO. 0007-0275	08-19-88	SHEET NO. 8	
NO. 0007-0275	08-19-88	SHEET NO. 8	

CAN DRAWING BE NOT REVISIT THIS ORIGINAL

9602210422 - 22

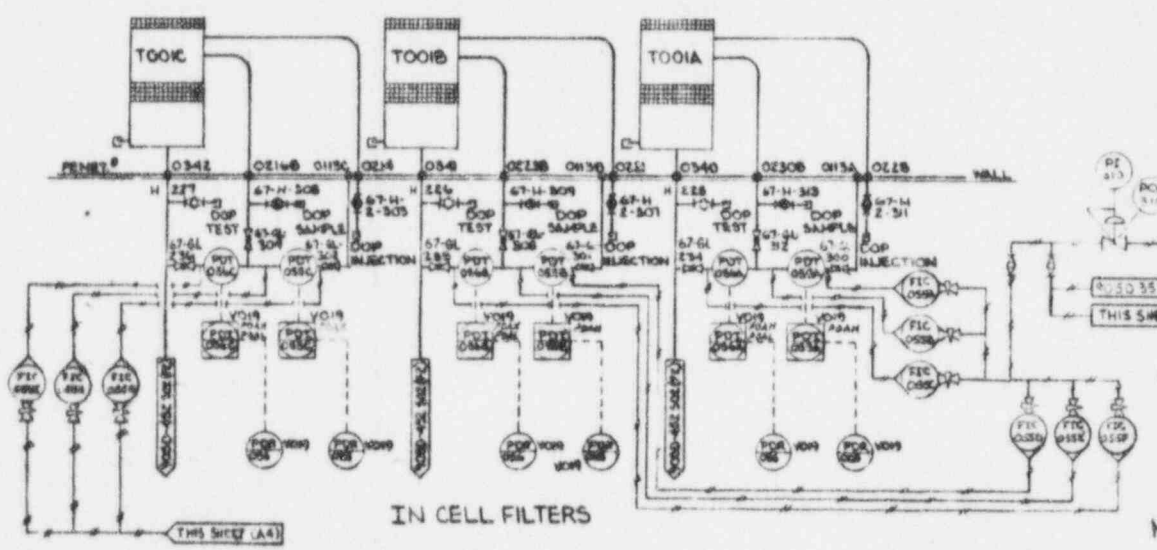
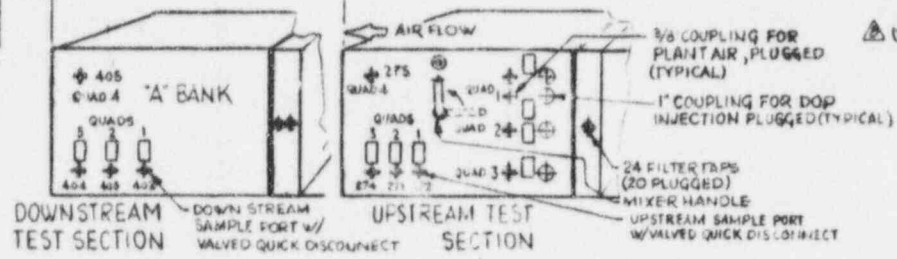
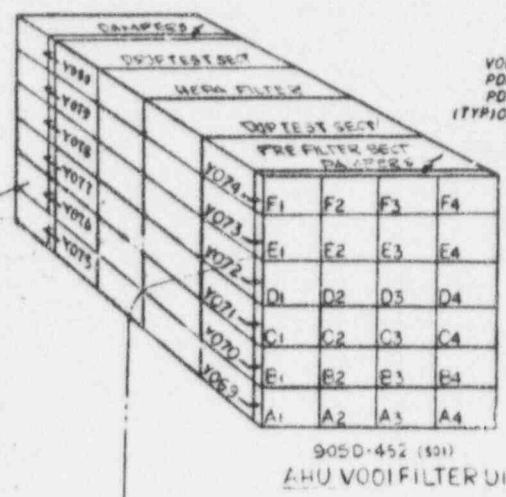
905-D-452502



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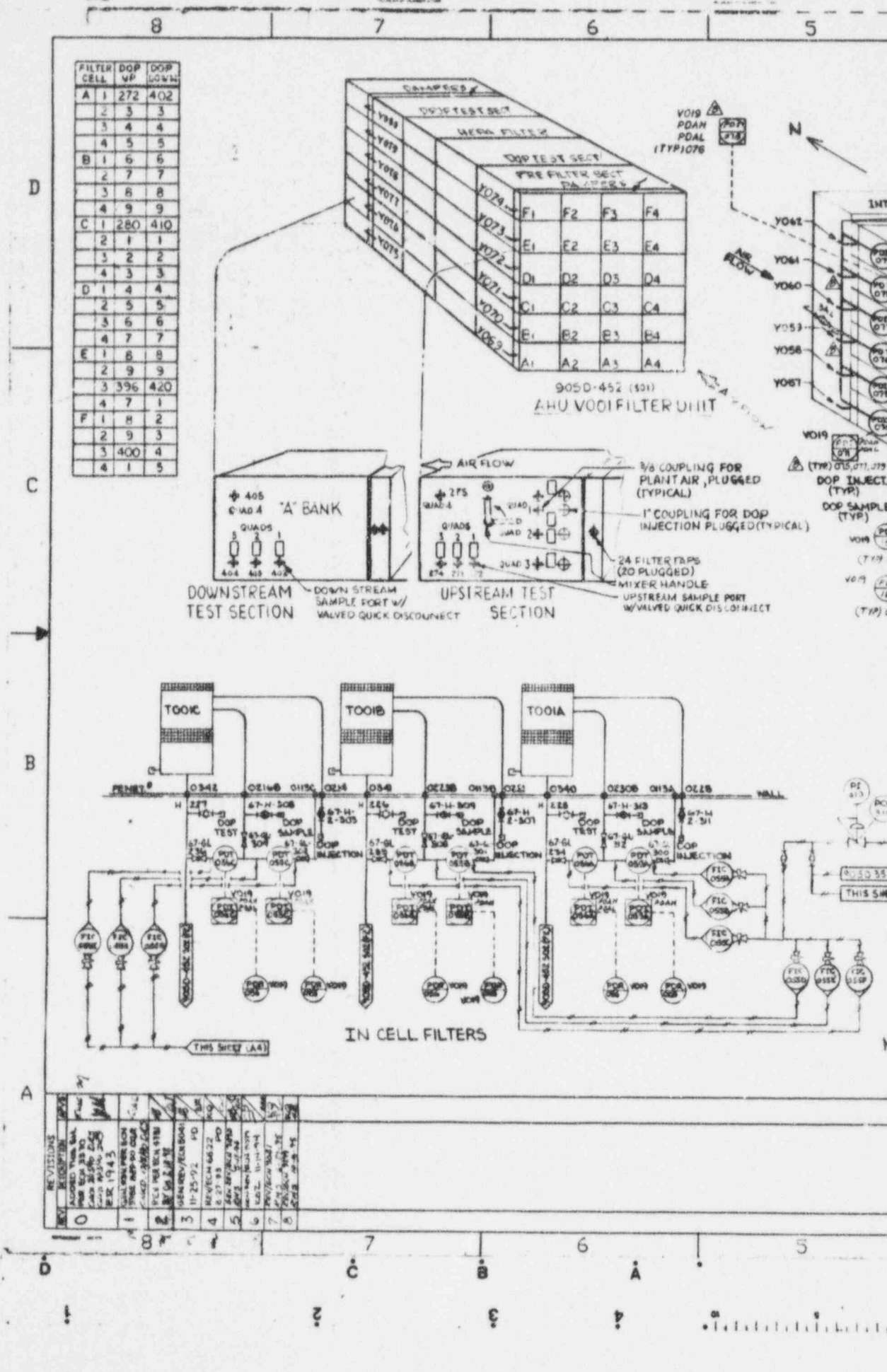
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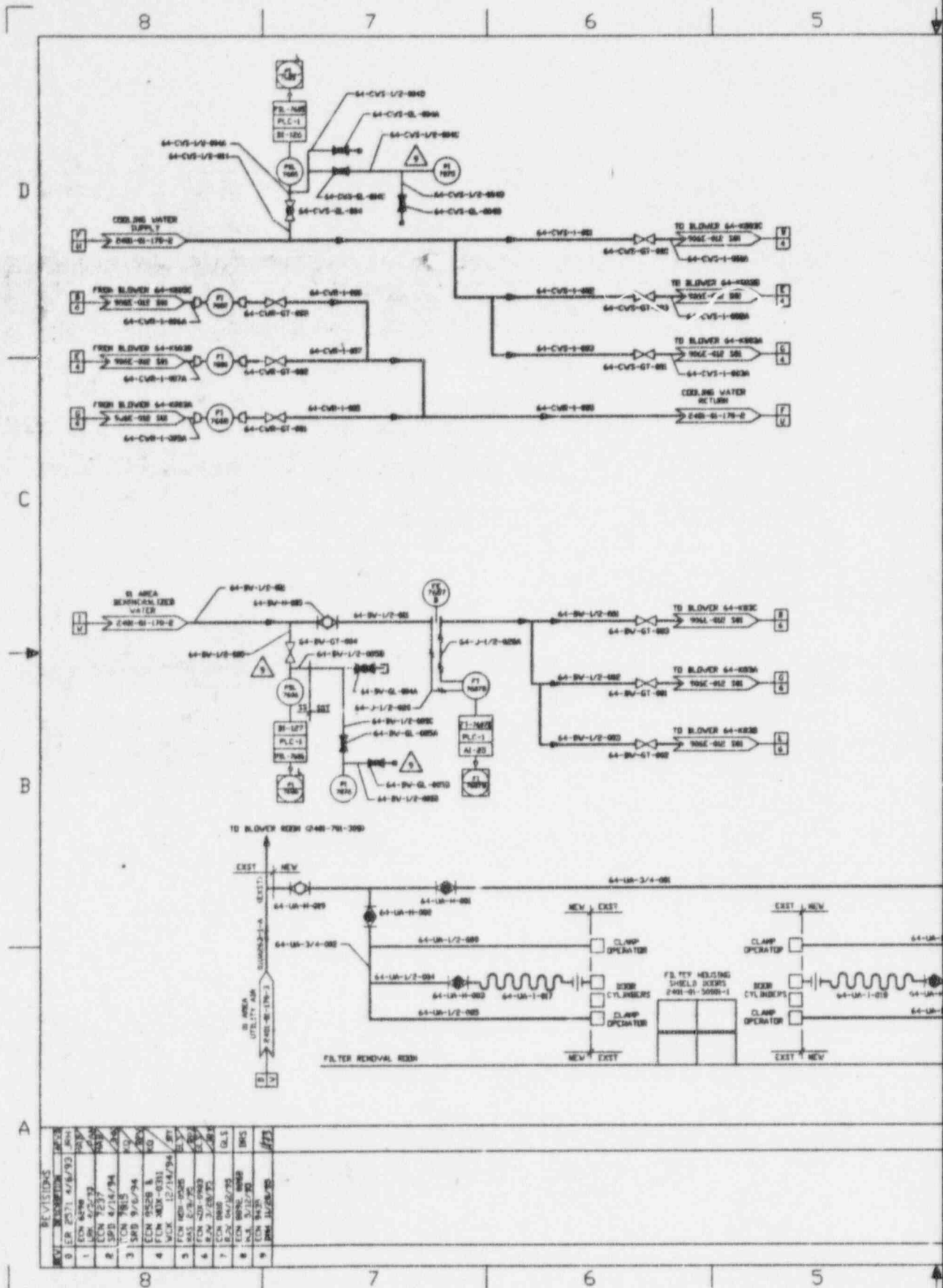
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B 1	6	6
2	7	7
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4	9	9
C 1	280	410
2	1	1
3	2	2
4	3	3
D 1	4	4
2	5	5
3	6	6
4	7	7
E 1	8	8
2	9	9
3	396	420
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F 1	8	2
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3	400	4
4	1	5



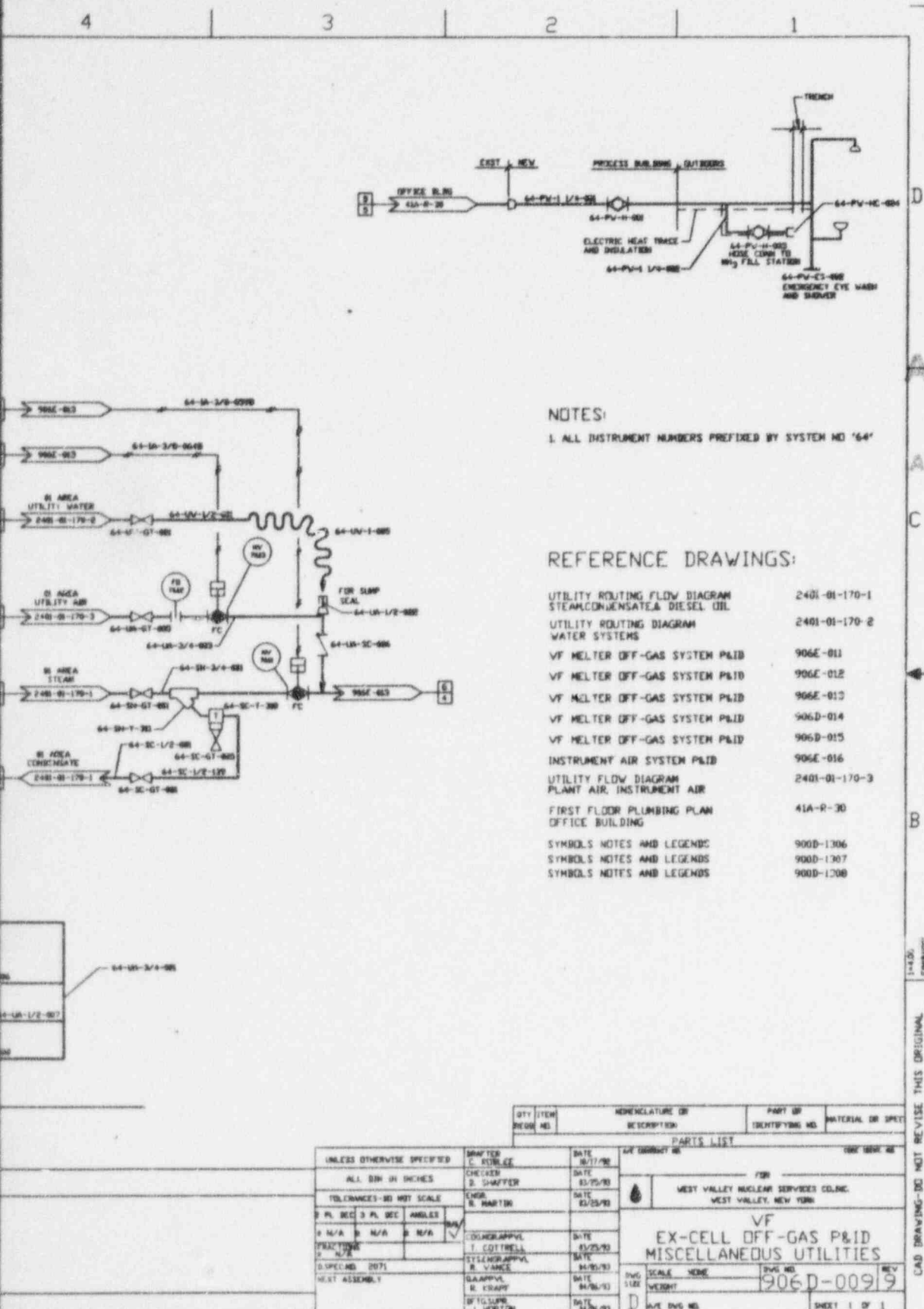
REVISIONS

NO.	DATE	BY	CHKD.	DESCRIPTION
1				ISSUED FOR CONSTRUCTION
2				REVISED TO SHOW CHANGES
3				REVISED TO SHOW CHANGES
4				REVISED TO SHOW CHANGES
5				REVISED TO SHOW CHANGES
6				REVISED TO SHOW CHANGES
7				REVISED TO SHOW CHANGES
8				REVISED TO SHOW CHANGES





NO.	REVISIONS	DATE	BY	CHKD.
0	ISSUE	4/18/73
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**ANSTEC
APERTURE
CARD**

Also Available on
Aperture Card

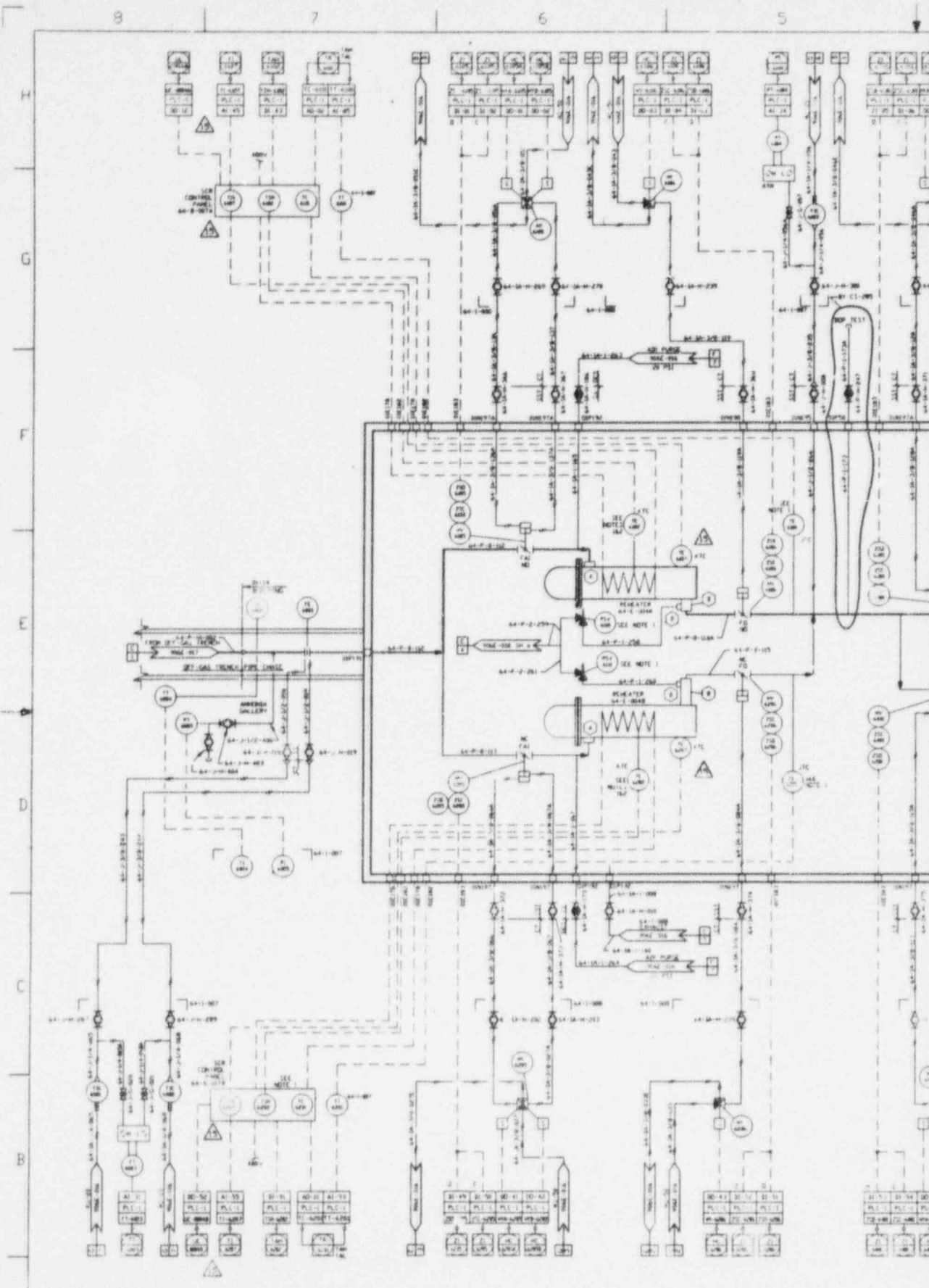
NOTES:
1. ALL INSTRUMENT NUMBERS PREFIXED BY SYSTEM NO '64'

- REFERENCE DRAWINGS:**
- UTILITY ROUTING FLOW DIAGRAM STEAM, CONDENSATE, DIESEL OIL 2401-01-170-1
 - UTILITY ROUTING DIAGRAM WATER SYSTEMS 2401-01-170-2
 - VF MELTER OFF-GAS SYSTEM P&ID 906E-011
 - VF MELTER OFF-GAS SYSTEM P&ID 906E-012
 - VF MELTER OFF-GAS SYSTEM P&ID 906E-013
 - VF MELTER OFF-GAS SYSTEM P&ID 906D-014
 - VF MELTER OFF-GAS SYSTEM P&ID 906D-015
 - INSTRUMENT AIR SYSTEM P&ID 906E-016
 - UTILITY FLOW DIAGRAM PLANT AIR, INSTRUMENT AIR 2401-01-170-3
 - FIRST FLOOR PLUMBING PLAN OFFICE BUILDING 41A-R-30
 - SYMBOLS NOTES AND LEGENDS 900D-1306
 - SYMBOLS NOTES AND LEGENDS 900D-1307
 - SYMBOLS NOTES AND LEGENDS 900D-1308

1-4-00
PMP/MS
CAD DRAWING - DO NOT REVISE THIS ORIGINAL

QTY	ITEM	DESCRIPTION	PART NO	MATERIAL OR SPEC
PARTS LIST				
UNLESS OTHERWISE SPECIFIED		DRAWN BY C. STUBBLE	DATE 01/17/90	APP'D BY R. MARTIN
ALL DIM IN INCHES		CHECKED BY D. CHAFFER	DATE 03/25/90	DATE 03/25/90
TOLERANCES - UNLESS NOTED		ENGR. R. MARTIN	DATE 03/25/90	
2 PL. DEC 3 PL. DEC	ANGLES			
Ø N/A	Ø N/A	Ø N/A		
FRACTIONS	N/A			
D. SPEC. NO. 2071		DESIGNED BY J. COITRELL	DATE 01/25/90	
NEXT ASSEMBLY		SYSTEMS BY R. VANCE	DATE 04/30/93	
		QA APPV. R. CRAPP	DATE 04/30/93	
		BY TOLERANCE J. HORTON	DATE 04/30/93	
		SCALE: NONE		DWG. NO. 906D-0099
		Dwg. Size		REV 9
		Dwg. No.		SHEET 1 OF 1

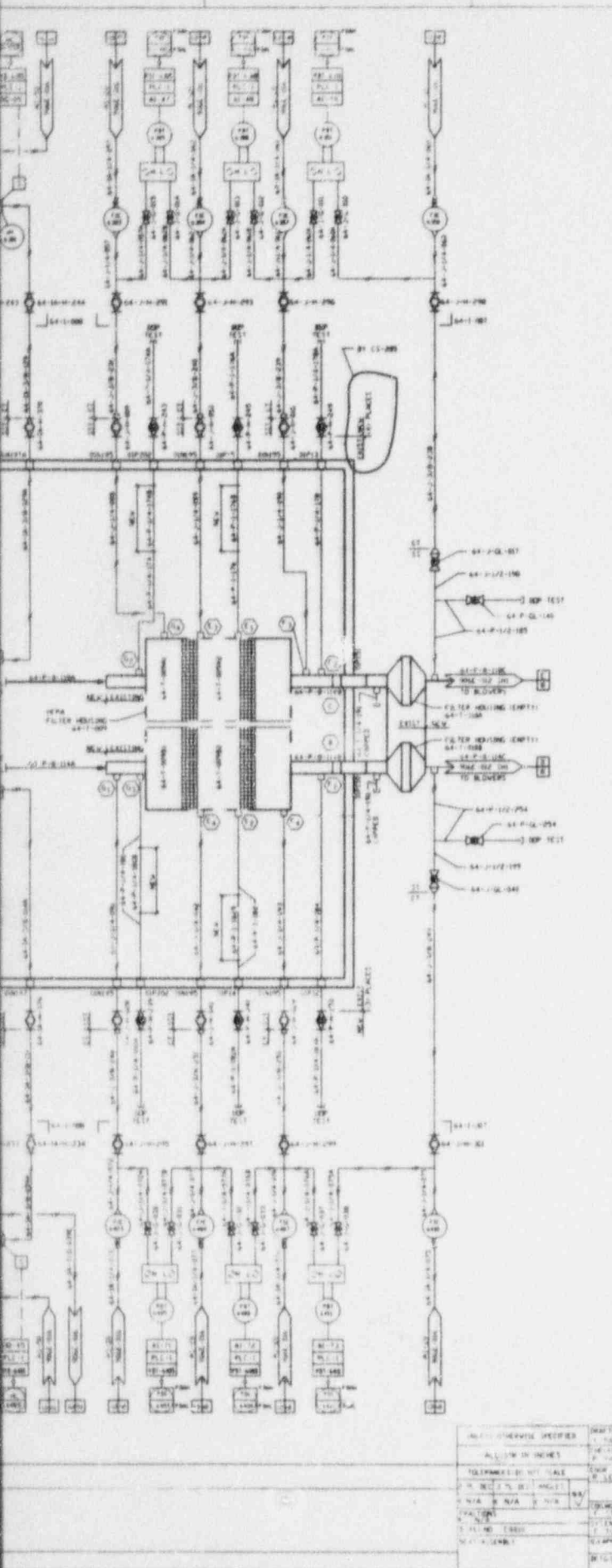
9602210422 - 25



NO.	DESCRIPTION	QTY.	UNIT	REMARKS
1	PIPE 1/2" X 10'	1	FT	
2	PIPE 1/2" X 10'	1	FT	
3	PIPE 1/2" X 10'	1	FT	
4	PIPE 1/2" X 10'	1	FT	
5	PIPE 1/2" X 10'	1	FT	
6	PIPE 1/2" X 10'	1	FT	
7	PIPE 1/2" X 10'	1	FT	
8	PIPE 1/2" X 10'	1	FT	
9	PIPE 1/2" X 10'	1	FT	
10	PIPE 1/2" X 10'	1	FT	
11	PIPE 1/2" X 10'	1	FT	
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15	PIPE 1/2" X 10'	1	FT	
16	PIPE 1/2" X 10'	1	FT	
17	PIPE 1/2" X 10'	1	FT	
18	PIPE 1/2" X 10'	1	FT	
19	PIPE 1/2" X 10'	1	FT	
20	PIPE 1/2" X 10'	1	FT	

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ANSTEC APERTURE CARD

Also Available on Aperture Card

NOTES:

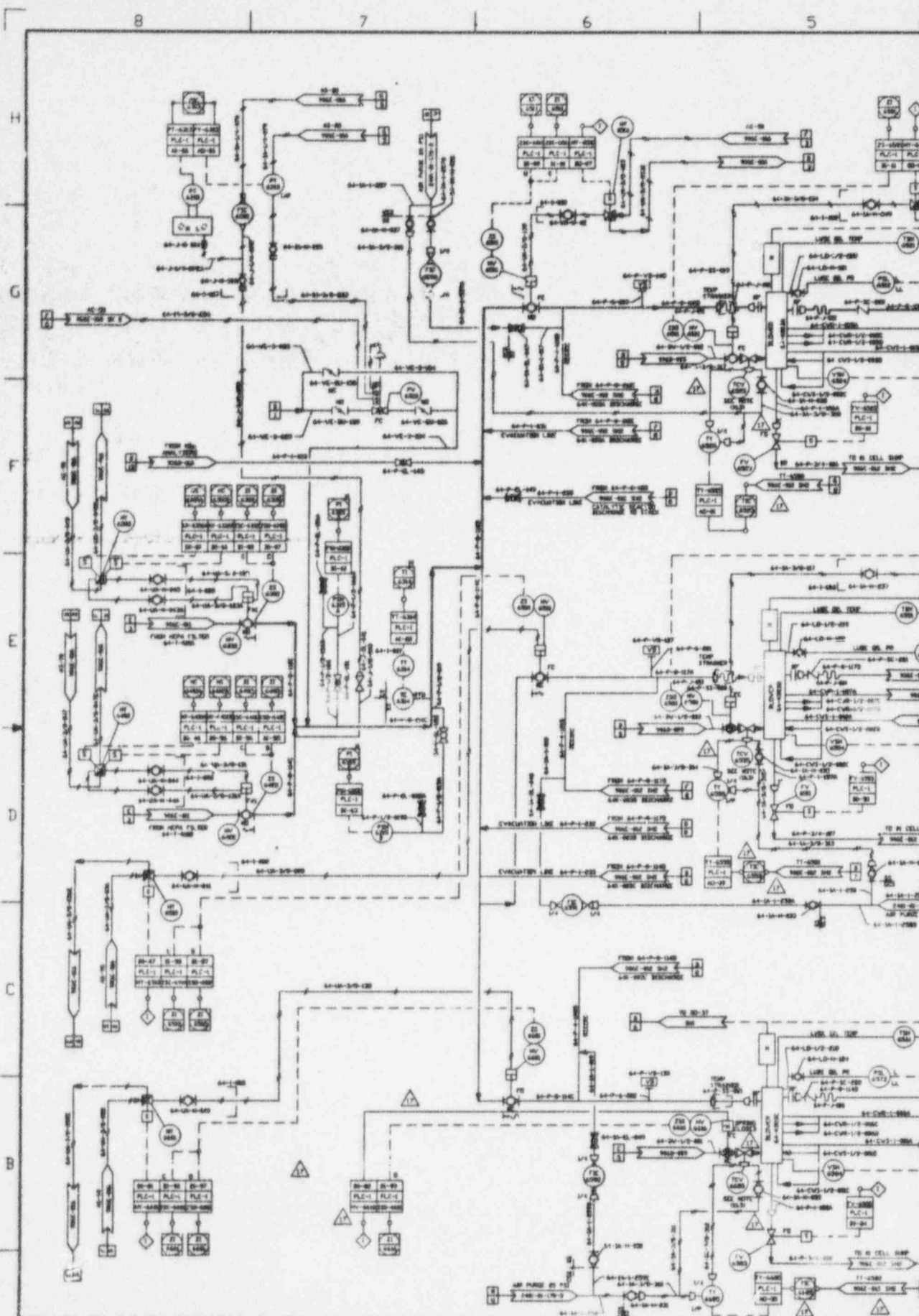
1. INSTRUMENTS SUPPLIED BY THE REHEATER MANUFACTURER
2. THERMOCYCLE MOUNTED ON REHEATER
3. ALL INSTRUMENTS NUMBERS PREFIXED BY SYSTEM NO. 64

REFERENCE DRAWINGS:

- | | |
|-------------------------------|------------------|
| NOTES, MESSAGES AND LEGEND | 900D-1108 |
| NOTES, MESSAGES AND LEGEND | 900D-1207 |
| NOTES, MESSAGES AND LEGEND | 900D-1309 |
| UTILITY FLOW DIAGRAM | 2401-01-170-3 |
| PLANT AND INSTRUMENT AIR | |
| DRYING TRENCH ON MAIN | |
| AIR TOWER | |
| VF REID MELTER DRY-GAS SYSTEM | 900E-012 SHD A 2 |
| INSTRUMENT AIR SYSTEM P&ID | 900E-016 |
| DRYING FIRING INSTRUMENT | 900E-017 |
| DIAGRAM DRY-GAS TRENCH | |

DATE	6/1/68	BY	J. J. WILSON
REVISION		BY	
PARTS LIST			
QUANTITY	DESCRIPTION	UNIT	REMARKS
1	REID MELTER FX-CELL		
1	HEATER		
1	INSTRUMENT AIR SYSTEM P&ID		
1	DRYING FIRING INSTRUMENT		
1	DIAGRAM DRY-GAS TRENCH		

THIS DRAWING IS NOT TO BE REPRODUCED WITHOUT THE ORIGINAL



BY OTHERS

NO.	DESCRIPTION	DATE	BY	CHKD.
1	REVISED	1/15/70	J. W. H.	J. W. H.
2	REVISED	2/10/70	J. W. H.	J. W. H.
3	REVISED	3/10/70	J. W. H.	J. W. H.
4	REVISED	4/10/70	J. W. H.	J. W. H.
5	REVISED	5/10/70	J. W. H.	J. W. H.
6	REVISED	6/10/70	J. W. H.	J. W. H.
7	REVISED	7/10/70	J. W. H.	J. W. H.
8	REVISED	8/10/70	J. W. H.	J. W. H.
9	REVISED	9/10/70	J. W. H.	J. W. H.
10	REVISED	10/10/70	J. W. H.	J. W. H.
11	REVISED	11/10/70	J. W. H.	J. W. H.
12	REVISED	12/10/70	J. W. H.	J. W. H.
13	REVISED	1/10/71	J. W. H.	J. W. H.
14	REVISED	2/10/71	J. W. H.	J. W. H.
15	REVISED	3/10/71	J. W. H.	J. W. H.
16	REVISED	4/10/71	J. W. H.	J. W. H.
17	REVISED	5/10/71	J. W. H.	J. W. H.

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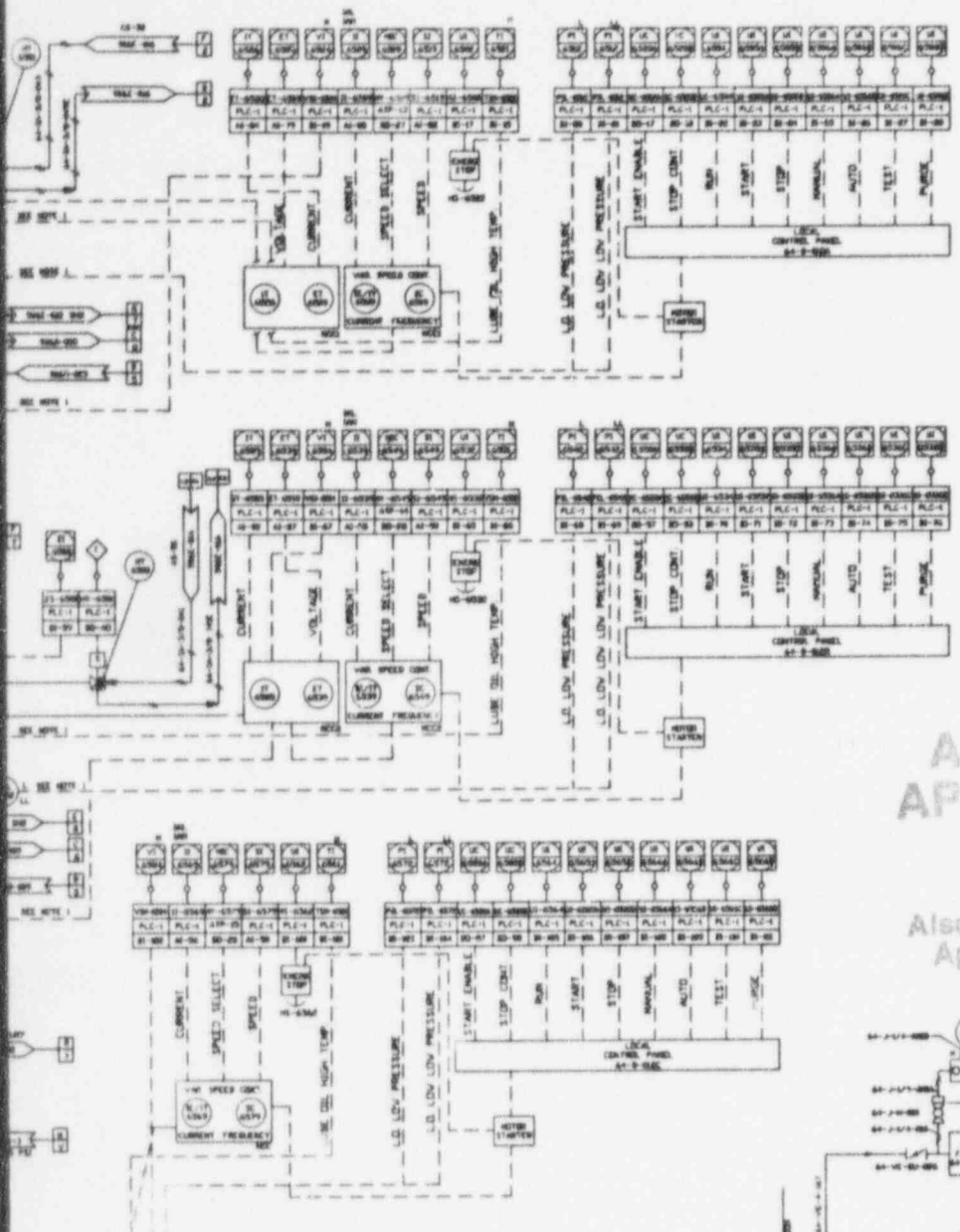
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ANSTEC APERTURE CARD

Also Available on Aperture Card

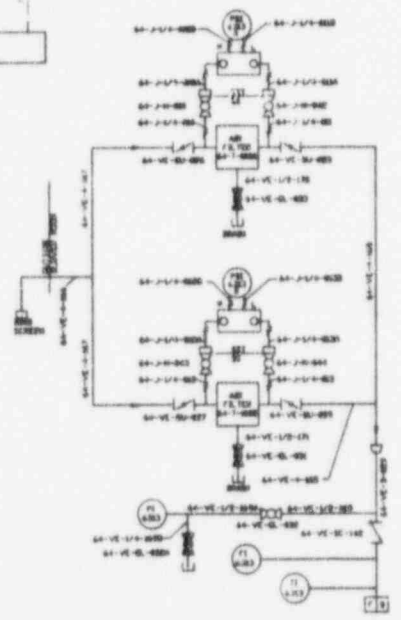
NOTES:

- 1. INSTRUMENTS OR COMPONENTS SUPPLIED BY EQUIPMENT SUPPLIER
- 2. ALL INSTRUMENTS MARKED PROVIDED BY SYSTEMS & SV
- 3. VALVE SUPPLIED WITH POSITIONER ACTIVATED
- 4. PCH INDICATES POSITION OF VALVE BEAT

REFERENCE DRAWINGS:

- UTILITY BUILDING FLOW DIAGRAM
- PLANT AIR BLOW BY & RECALL ON
- V F FLOW RELIEF OFF-GAS SYSTEM UTILITIES
- V F FLOW RELIEF OFF-GAS SYSTEM
- V F FLOW RELIEF OFF-GAS SYSTEM
- V F FLOW RELIEF OFF-GAS SYSTEM
- V F FLOW RELIEF OFF-GAS SYSTEM
- BATCHWORK AIR SYSTEM FLOW
- SYMBOLS NOTES & LEGEND
- SYMBOLS NOTES & LEGEND
- SYMBOLS NOTES & LEGEND

- 2000-00-170-1
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- 2000-00

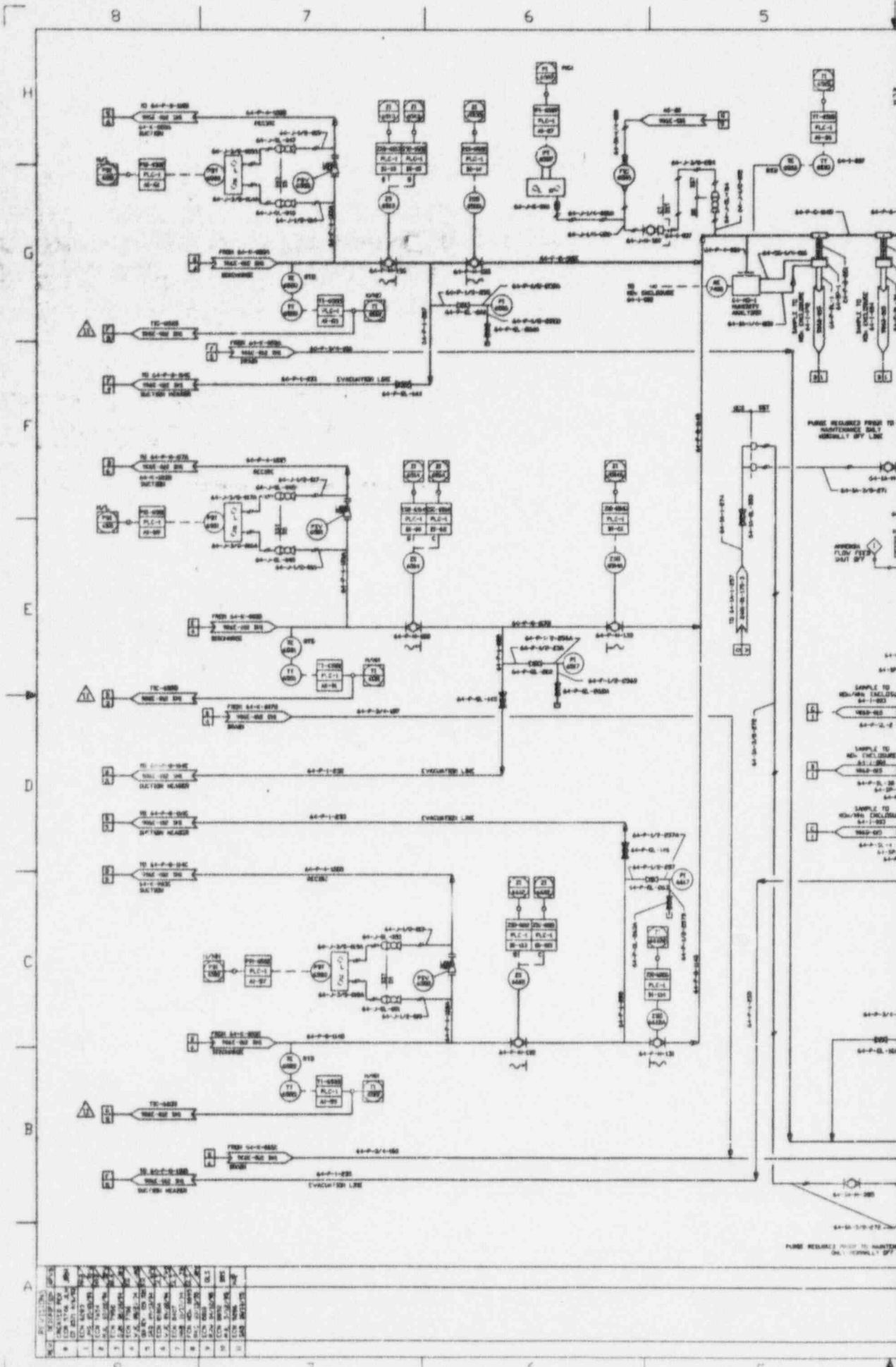


DESIGN ENGINEER	DATE	PROJECT NO.	REV. NO.
CHECKED BY	DATE	PROJECT NO.	REV. NO.
APPROVED BY	DATE	PROJECT NO.	REV. NO.
SCALE	DATE	PROJECT NO.	REV. NO.
DATE	DATE	PROJECT NO.	REV. NO.
DATE	DATE	PROJECT NO.	REV. NO.
DATE	DATE	PROJECT NO.	REV. NO.
DATE	DATE	PROJECT NO.	REV. NO.
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DATE	DATE	PROJECT NO.	REV. NO.
DATE	DATE	PROJECT NO.	REV. NO.

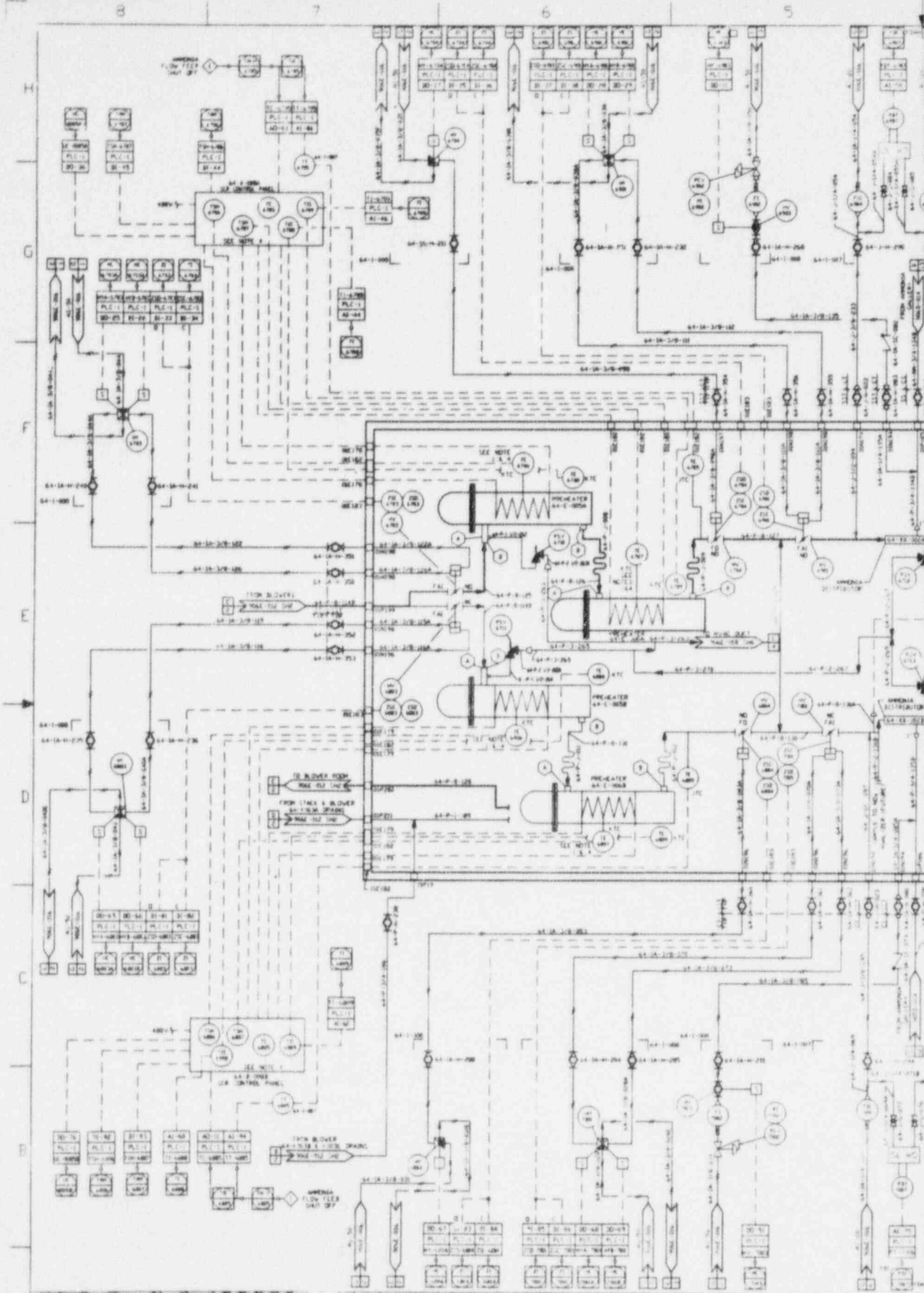
VITRIFICATION FACILITY
P & ID
OFF-GAS SYSTEM

1906E-012 17

9602210422-27



NO.	DESCRIPTION	UNIT	STATUS
1	PLC-1	PLC-1	OK
2	PLC-2	PLC-2	OK
3	PLC-3	PLC-3	OK
4	PLC-4	PLC-4	OK
5	PLC-5	PLC-5	OK
6	PLC-6	PLC-6	OK
7	PLC-7	PLC-7	OK
8	PLC-8	PLC-8	OK
9	PLC-9	PLC-9	OK
10	PLC-10	PLC-10	OK
11	PLC-11	PLC-11	OK
12	PLC-12	PLC-12	OK
13	PLC-13	PLC-13	OK
14	PLC-14	PLC-14	OK
15	PLC-15	PLC-15	OK
16	PLC-16	PLC-16	OK
17	PLC-17	PLC-17	OK
18	PLC-18	PLC-18	OK
19	PLC-19	PLC-19	OK
20	PLC-20	PLC-20	OK

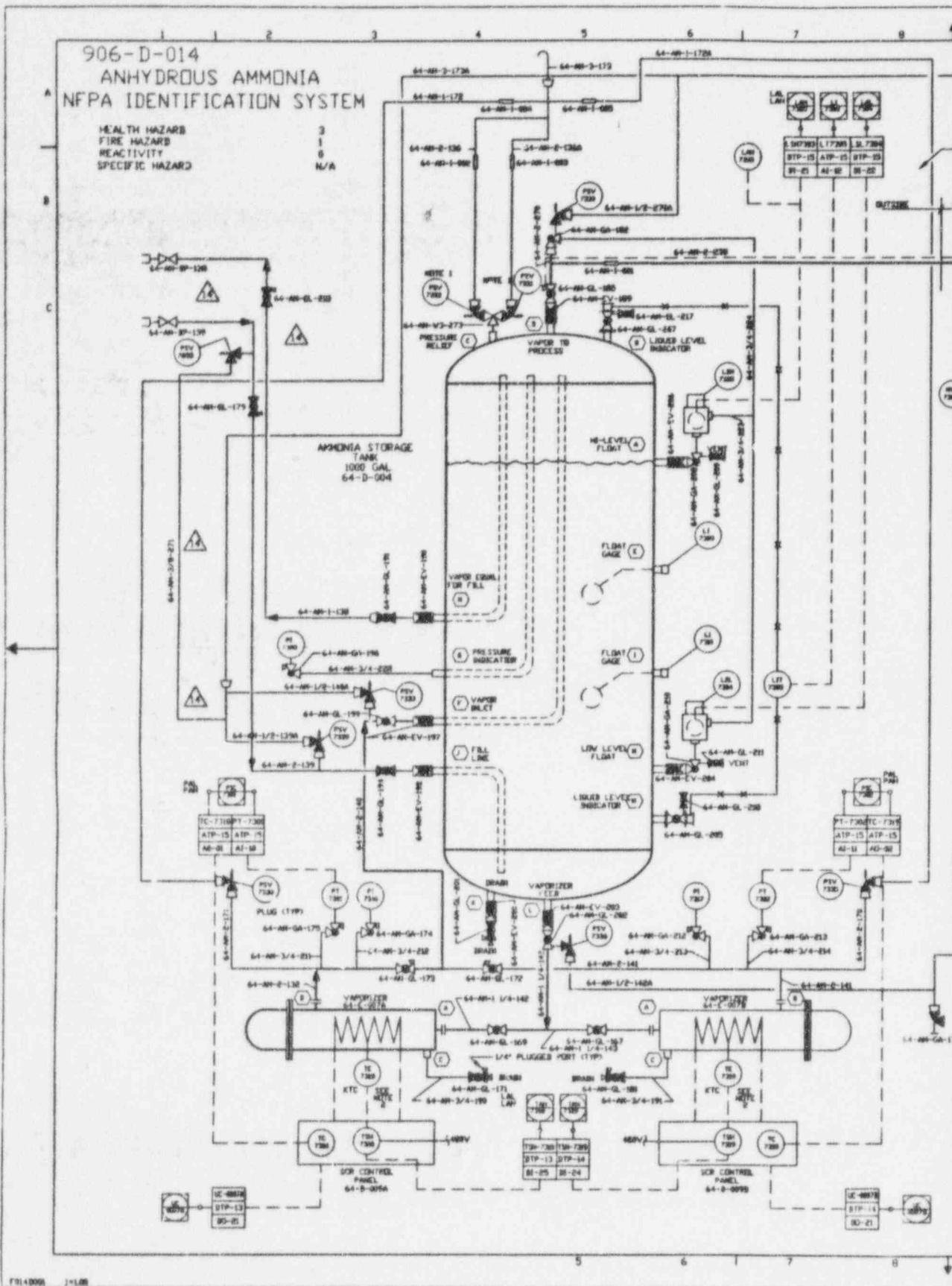


NO.	DESCRIPTION	UNIT	STATUS
1	PLC-1	PLC	OPERATIONAL
2	PLC-2	PLC	OPERATIONAL
3	PLC-3	PLC	OPERATIONAL
4	PLC-4	PLC	OPERATIONAL
5	PLC-5	PLC	OPERATIONAL
6	PLC-6	PLC	OPERATIONAL
7	PLC-7	PLC	OPERATIONAL
8	PLC-8	PLC	OPERATIONAL
9	PLC-9	PLC	OPERATIONAL
10	PLC-10	PLC	OPERATIONAL
11	PLC-11	PLC	OPERATIONAL
12	PLC-12	PLC	OPERATIONAL
13	PLC-13	PLC	OPERATIONAL
14	PLC-14	PLC	OPERATIONAL
15	PLC-15	PLC	OPERATIONAL

1
 2
 3
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 15

906-D-014
 ANHYDROUS AMMONIA
 NFPA IDENTIFICATION SYSTEM

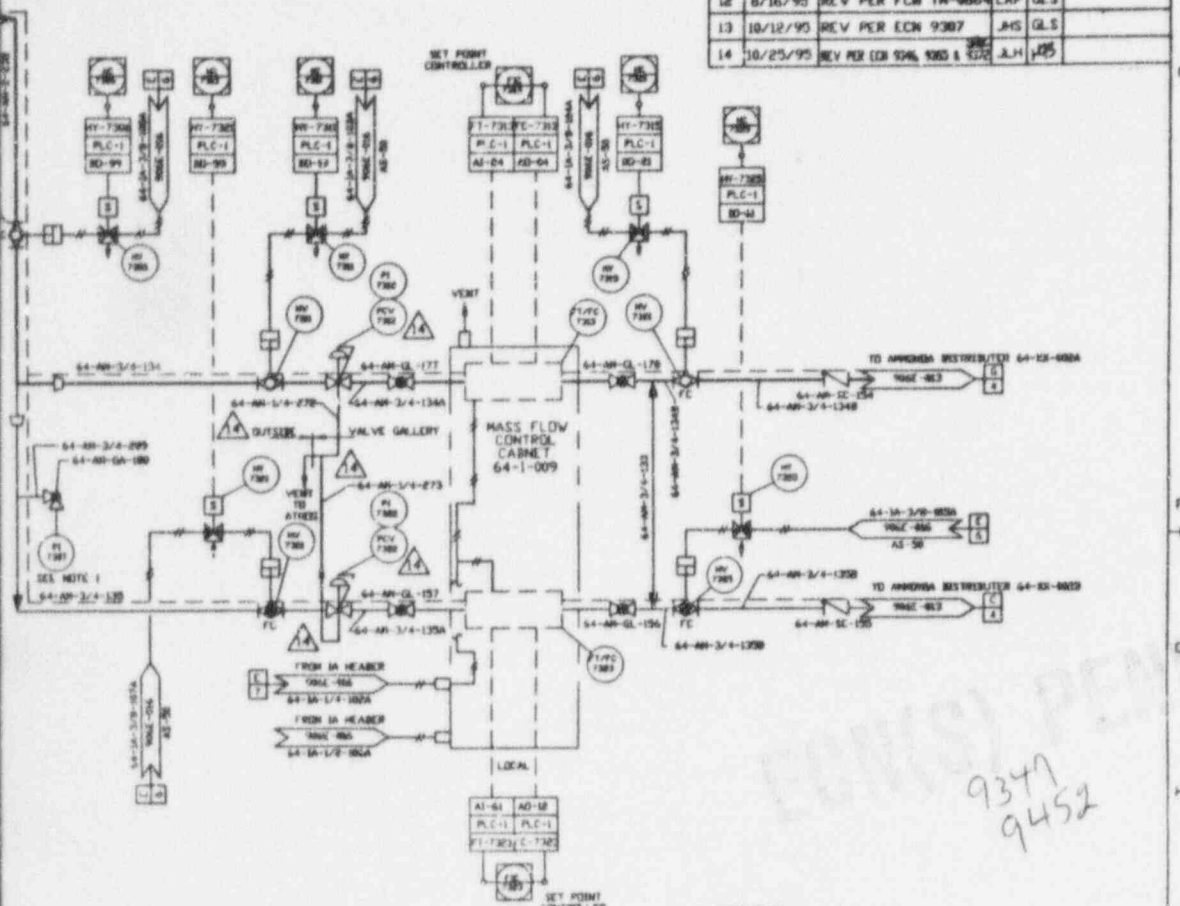
HEALTH HAZARD 3
 FIRE HAZARD 1
 REACTIVITY 0
 SPECIFIC HAZARD N/A



FD149000 2-1-68

NO.	DATE	REVISION	DR	CH	APPROVED
B	10-04-94	GENERAL REVISION	YP	JK	J.S.
C	10-04-94	GENERAL REVISION	YP	JK	J.S.
D	9/24/91	ER 2193			JRH
E	11/15/94	FCM MDX-0247	MAB	GLS	JRY
F	12/6/94	REV PER FCM MDX-0313	LAK	GLS	JRY
G	04/12/95	REV PER ECM 0010	RJV	GLS	
H	7/14/95	REV PER ECM 9007	M.S.	GLS	
I	8/16/95	REV PER FCM TN-0064	LRP	GLS	
J	10/12/95	REV PER ECM 9307	JHS	GLS	
K	10/25/95	REV PER (DB 5246, 5302 & 5303)	A.H.	J.S.	

SEE NOTE D
VALVE GALLERY



ANSTEC APERTURE CARD
Also Available on Aperture Card

9347
9452

NOTES:

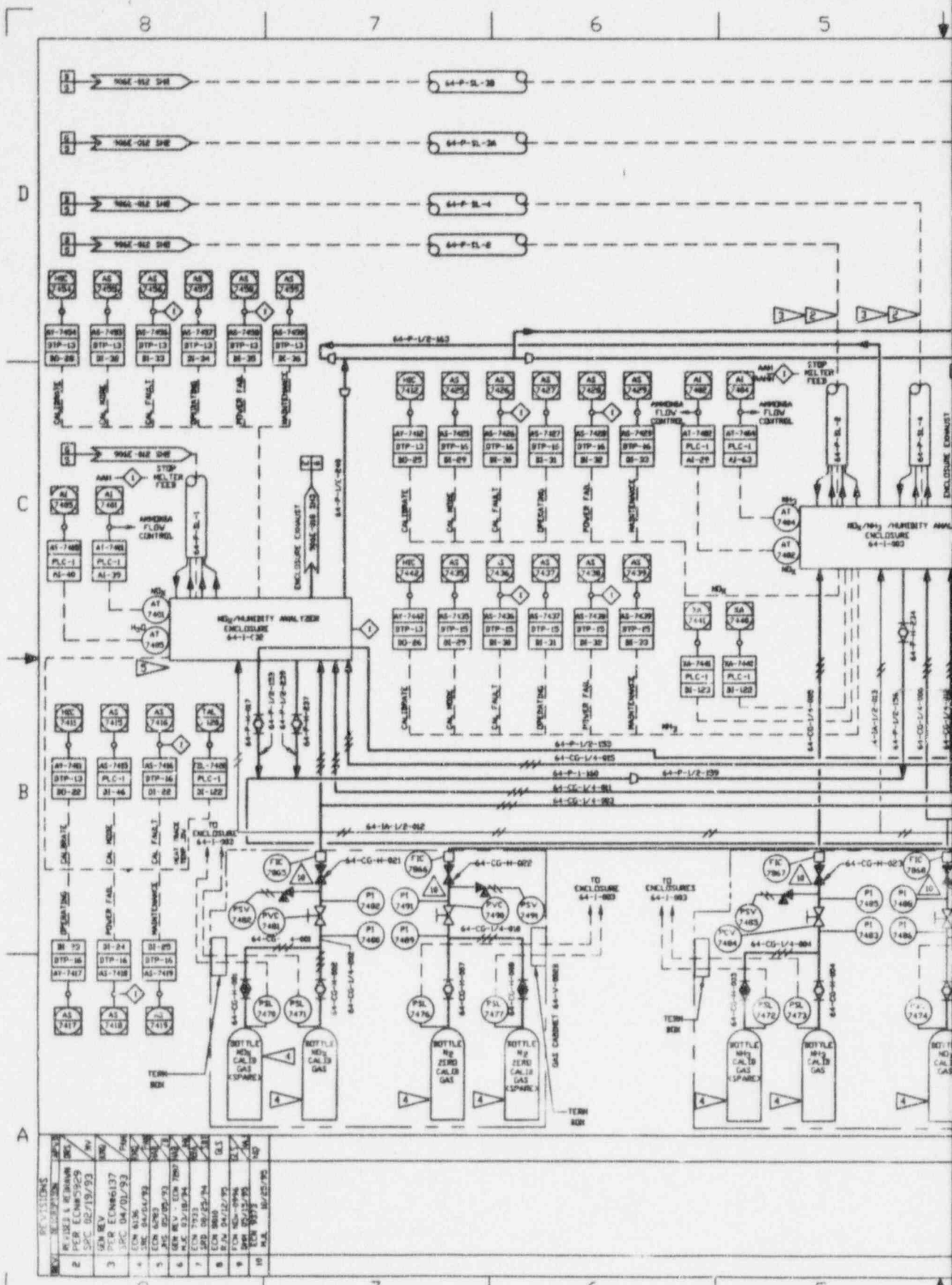
1. PSV 7301 AND PSV 7302 ARE INCLUDED IN 64-AM-3/4-273.
2. THERMOCOUPLE MOUNTED ON VAPORIZER.
3. ——— HEAT TRACED PIPES.
4. ALL INSTRUMENT NUMBERS PREFIXED BY SYSTEM NO '64'

REFERENCE DRAWINGS:

V.F. PAID MELTER OFF-GAS SYSTEM	906E-012
V.F. PAID MELTER OFF-GAS SYSTEM	906E-013
V.F. PAID MELTER OFF-GAS SYSTEM	906D-015
INSTRUMENT AIR SYSTEM PAID	906E-016
SYMBOLS NOTES & LEGEND	900D-1306
SYMBOLS NOTES & LEGEND	900D-1307
SYMBOLS NOTES & LEGEND	900D-1308
AMMONIA STORAGE TANK	906D-020

FOR DRAWING INDEX SEE DRAWING NO.		E-BASCO SERVICES INCORPORATED	
APPROVED	DATE	DATE	TASK ORDER NO.
PROJECT MGR	DATE	DATE	
ENGINEER SUPV	DATE	WEST VALLEY NUCLEAR SERVICES COMPANY, INC	
LEAD DESIG ENGR	DATE	WEST VALLEY, NEW YORK	
DESIGN	DATE	WEST VALLEY DEMONSTRATION PROJECT	
CHECKED	DATE	VITRIFICATION FACILITY	
DRAWN	DATE	PAID MELTER EX-CELL	
DATE	DATE	OFF-GAS SYSTEM	
SCALE	SCALE	DRAWING NO.	REV.
SCALE	SCALE	906D-014	14
SCALE	SCALE	906D-014	C

CAD DRAWING - DO NOT REVISE THIS ORIGINAL



REV.	DESCRIPTION	DATE	BY	CHK.
1	REVISED & REVISION	08/15/79	WV	WV
2	PER ECON 5/29/79	02/19/79	SPC	SPC
3	GEN REV	ECON 6/13/79	SPC	SPC
4	ECON 6/13/79	04/01/79	SPC	SPC
5	ECON 6/13/79	04/01/79	SPC	SPC
6	ECON 6/13/79	04/01/79	SPC	SPC
7	ECON 7/23/79	06/25/79	SPC	SPC
8	ECON 8/8/79	08/22/79	SPC	SPC
9	ECON 8/8/79	08/22/79	SPC	SPC
10	ECON 8/8/79	08/22/79	SPC	SPC

D
 C
 B
 A

NOTES:

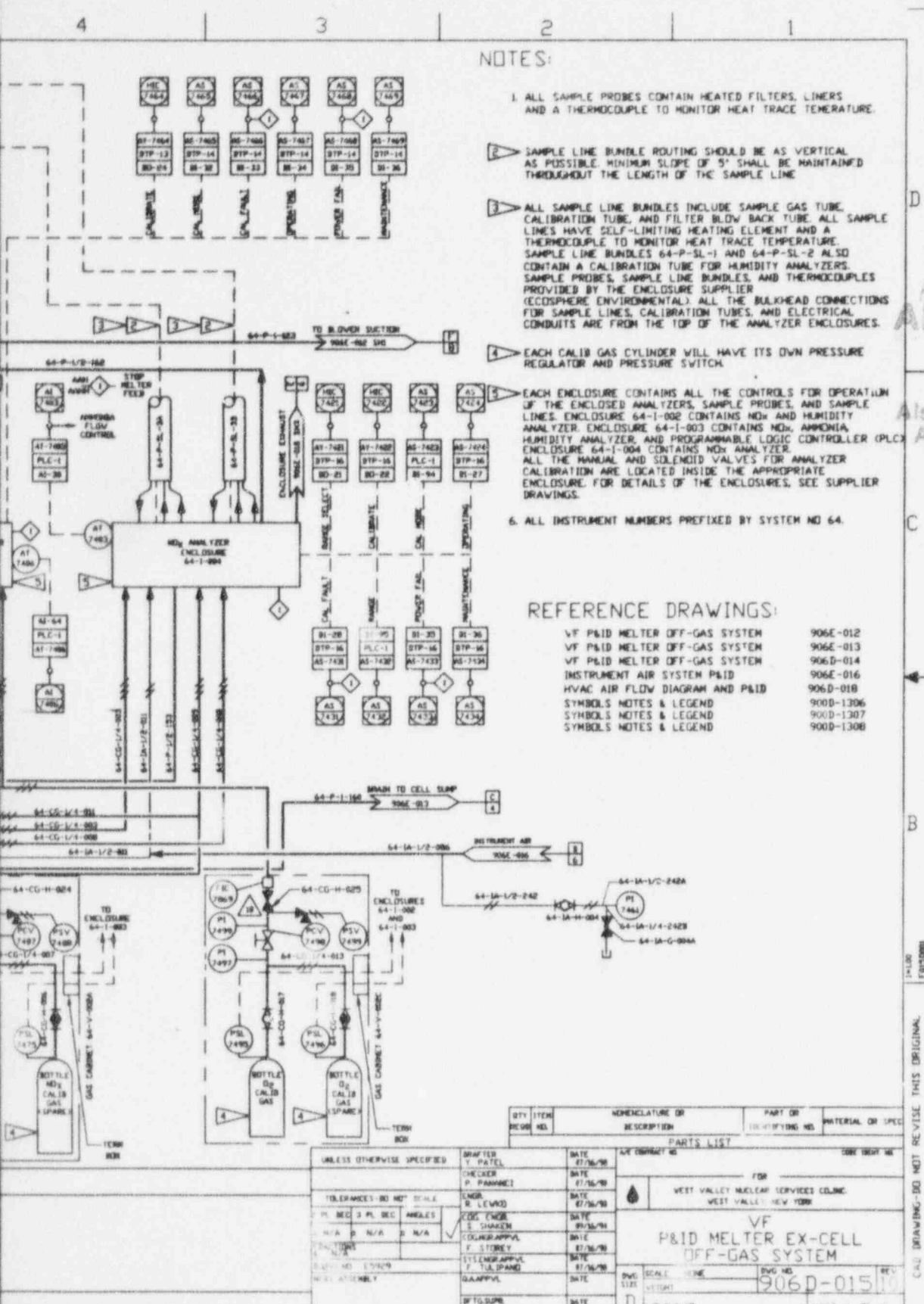
1. ALL SAMPLE PROBES CONTAIN HEATED FILTERS, LINERS AND A THERMOCOUPLE TO MONITOR HEAT TRACE TEMPERATURE.
2. SAMPLE LINE BUNDLE ROUTING SHOULD BE AS VERTICAL AS POSSIBLE. MINIMUM SLOPE OF 5' SHALL BE MAINTAINED THROUGHOUT THE LENGTH OF THE SAMPLE LINE.
3. ALL SAMPLE LINE BUNDLES INCLUDE SAMPLE GAS TUBE, CALIBRATION TUBE, AND FILTER BLOW BACK TUBE. ALL SAMPLE LINES HAVE SELF-LIMITING HEATING ELEMENT AND A THERMOCOUPLE TO MONITOR HEAT TRACE TEMPERATURE. SAMPLE LINE BUNDLES 64-P-SL-1 AND 64-P-SL-2 ALSO CONTAIN A CALIBRATION TUBE FOR HUMIDITY ANALYZERS. SAMPLE PROBES, SAMPLE LINE BUNDLES, AND THERMOCOUPLES PROVIDED BY THE ENCLOSURE SUPPLIER (ECOSPHERE ENVIRONMENTAL). ALL THE BULKHEAD CONNECTIONS FOR SAMPLE LINES, CALIBRATION TUBES, AND ELECTRICAL CONDUITS ARE FROM THE TOP OF THE ANALYZER ENCLOSURES.
4. EACH CALIB GAS CYLINDER WILL HAVE ITS OWN PRESSURE REGULATOR AND PRESSURE SWITCH.
5. EACH ENCLOSURE CONTAINS ALL THE CONTROLS FOR OPERATION OF THE ENCLOSED ANALYZERS, SAMPLE PROBES, AND SAMPLE LINES. ENCLOSURE 64-I-002 CONTAINS NOx AND HUMIDITY ANALYZER. ENCLOSURE 64-I-003 CONTAINS NOx, AMMONIA, HUMIDITY ANALYZER, AND PROGRAMMABLE LOGIC CONTROLLER (PLC). ENCLOSURE 64-I-004 CONTAINS NOx ANALYZER. ALL THE MANUAL AND SOLENOID VALVES FOR ANALYZER CALIBRATION ARE LOCATED INSIDE THE APPROPRIATE ENCLOSURE. FOR DETAILS OF THE ENCLOSURES, SEE SUPPLIER DRAWINGS.
6. ALL INSTRUMENT NUMBERS PREFIXED BY SYSTEM NO 64.

ANSTEC APERTURE CARD

Also Available on Aperture Card

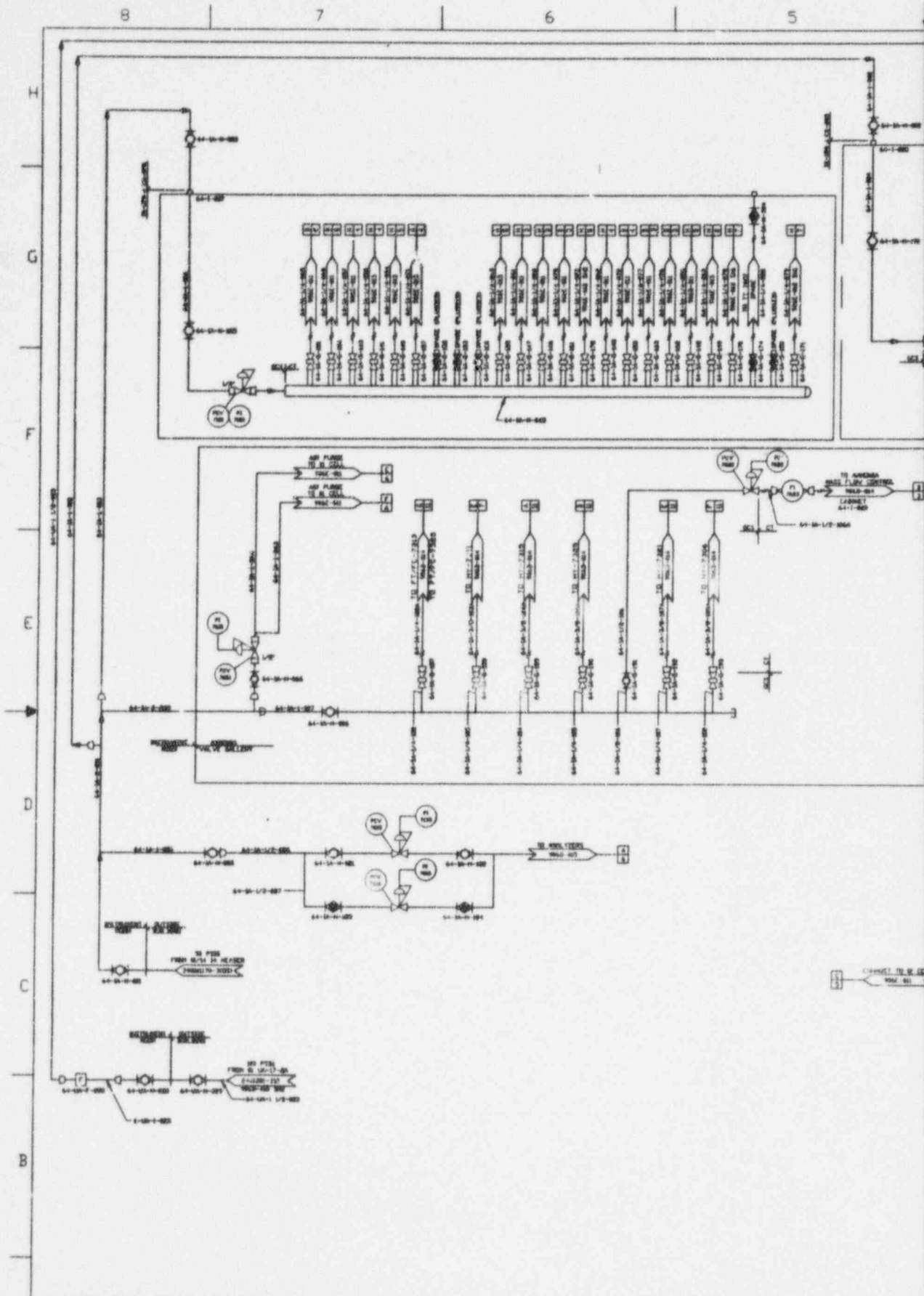
REFERENCE DRAWINGS:

- VF P&ID MELTER OFF-GAS SYSTEM 906E-012
- VF P&ID MELTER OFF-GAS SYSTEM 906E-013
- VF P&ID MELTER OFF-GAS SYSTEM 906D-014
- INSTRUMENT AIR SYSTEM P&ID 906E-016
- HVAC AIR FLOW DIAGRAM AND P&ID 906D-018
- SYMBOLS NOTES & LEGEND 900D-1306
- SYMBOLS NOTES & LEGEND 900D-1307
- SYMBOLS NOTES & LEGEND 900D-1308

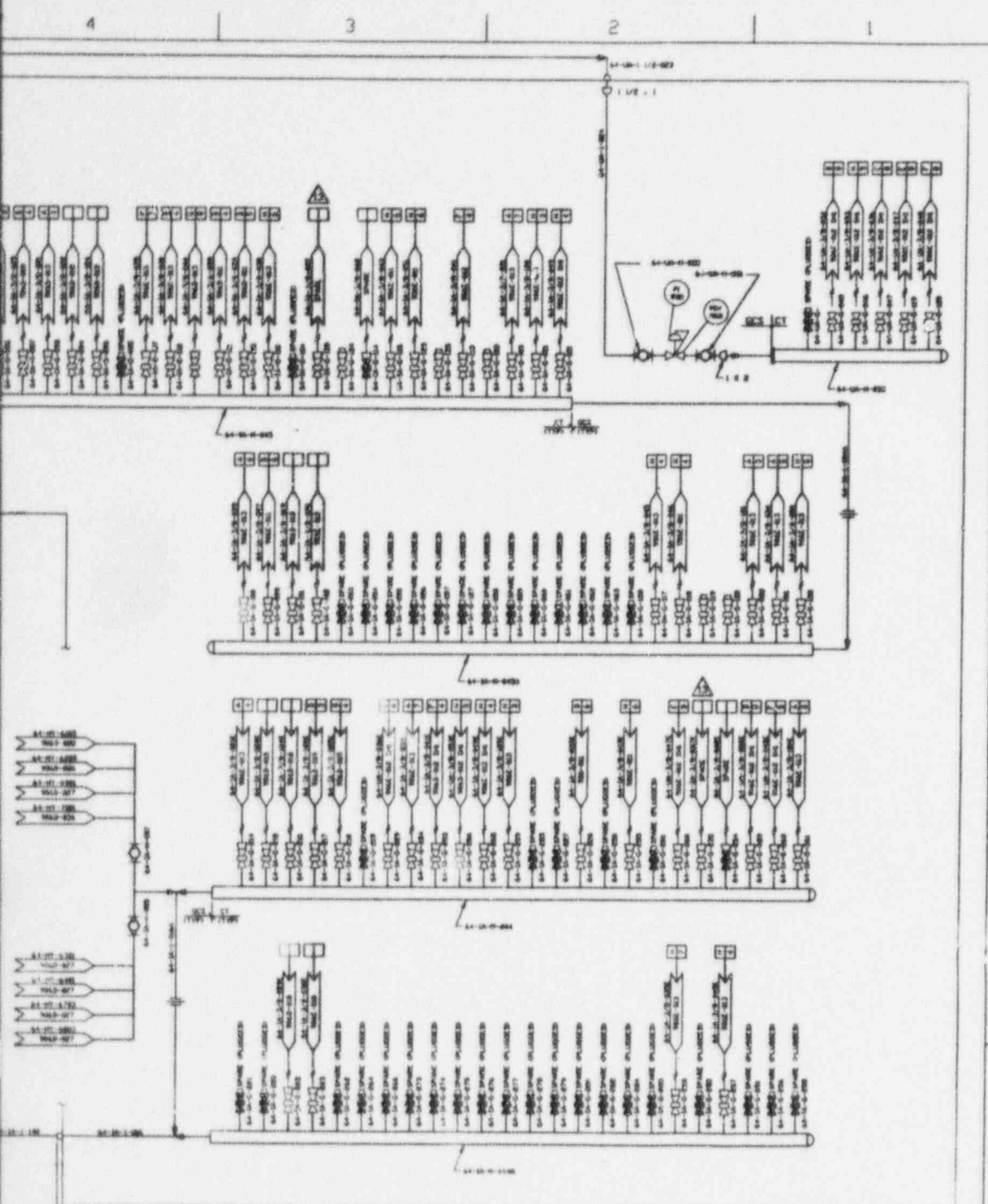


QTY	ITEM	DESCRIPTION	PART OR IDENTIFYING NO.	MATERIAL OR SPEC
PARTS LIST				
UNLESS OTHERWISE SPECIFIED	DRAWN	T. PATEL	DATE	07/76/90
	CHECKED	P. PARNACE	DATE	07/76/90
	ENGR.	R. LEVAD	DATE	07/76/90
	DESIGN	S. SHARON	DATE	09/76/90
	COLOR APPROVAL	F. STOREY	DATE	07/76/90
	SYMBOL APPROVAL	F. S. SPANGLER	DATE	07/76/90
	QUALITY	DATE		
	BY TGS/SLP	DATE		

9602210422-31



REV.	DESCRIPTION	DATE
0	ISSUED FOR CONSTRUCTION	10/1/58
1	REVISIONS	10/1/58
2	REVISIONS	10/1/58
3	REVISIONS	10/1/58
4	REVISIONS	10/1/58
5	REVISIONS	10/1/58
6	REVISIONS	10/1/58
7	REVISIONS	10/1/58
8	REVISIONS	10/1/58
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25	REVISIONS	10/1/58
26	REVISIONS	10/1/58
27	REVISIONS	10/1/58
28	REVISIONS	10/1/58
29	REVISIONS	10/1/58
30	REVISIONS	10/1/58



**ANSTEC
APERTURE
CARD**

Also Available on
Aperture Card

REFERENCE DRAWINGS:

- | | |
|------------------------------|---------------|
| SYMBOLS, NOTES & LEGEND | 900-1306 |
| SYMBOLS, NOTES & LEGEND | 900-1307 |
| SYMBOLS, NOTES & LEGEND | 900-1300 |
| VF MELTER OFF-GAS SYSTEM | 906-011 |
| VF MELTER OFF-GAS SYSTEM | 906-012 |
| VF MELTER OFF-GAS SYSTEM | 906-013 |
| VF MELTER OFF-GAS SYSTEM | 906-015 |
| VF MELTER OFF-GAS SYSTEM | 906-016 |
| MINE AIR FLOW DIAGRAM & P&ID | 2401-01-170-3 |

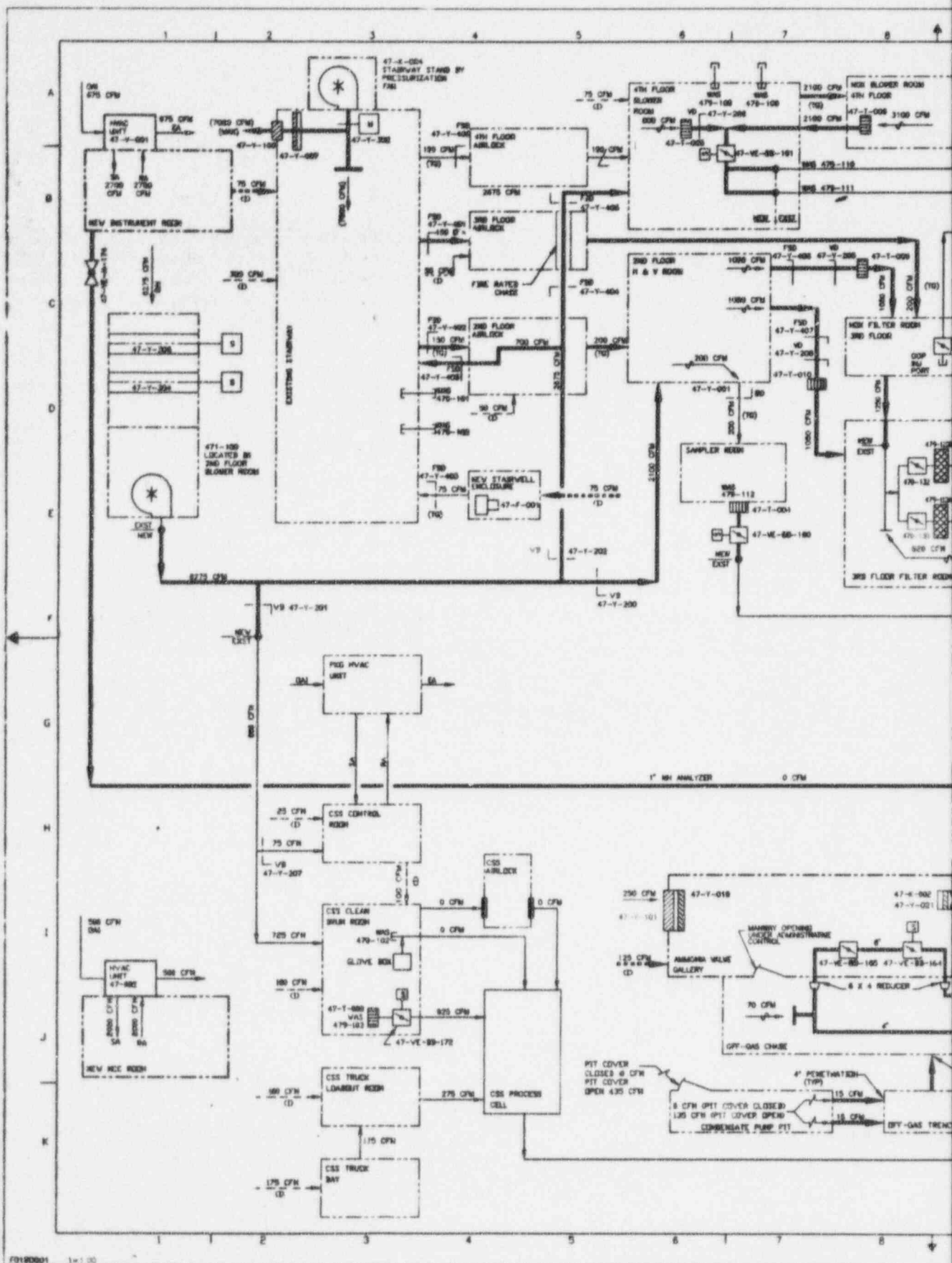
NOTES

1) ALL INSTRUMENTS NUMBERS PREFIXED BY SYSTEM NO. 64.

ITEM NO.	QUANTITY	DESCRIPTION	UNIT	DATE	BY	CHKD.
1	1	VF MELTER OFF-GAS SYSTEM P&ID INSTRUMENT AIR SYSTEM	1	02-24-59
2	1	VF MELTER OFF-GAS SYSTEM P&ID INSTRUMENT AIR SYSTEM	1	02-24-59

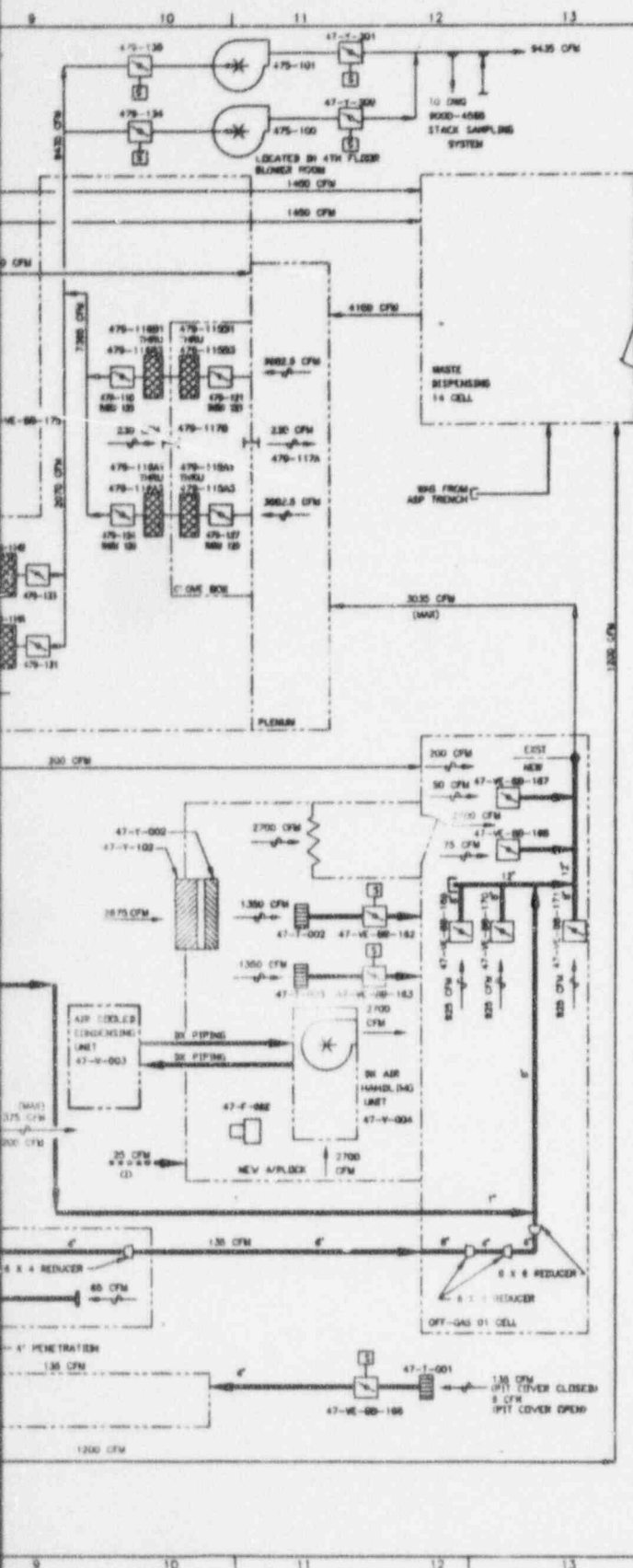
CAD DRAWING-DO NOT REVISE THIS DRAWING

9602210422-32

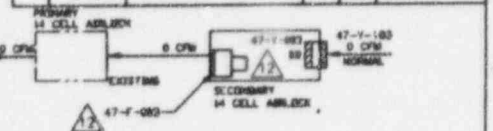


FOYR0001 1x100

D C B A
 1 2 3 4



NO.	DATE	REVISION	BY	CHK	APPROVED
11	11-20-90		N.A.	N.A.	N.A.
GENERAL REVISION					
8	5/24/91	CR 2390			JPH
8	03/26/91	ECH 8748	HAB	HO	HE
9	04/11/90	ECH 8843	SAD	GLS	JPH
10	5/7/93	ECH 8838	BLM	CRD	
11	8/21/90	REV PER ECH 9150	MAL	HO	LWR
13	11/20/90	REV PER ECH 9422	JAS	HO	JPH
6	1/27/94	GDH REV PER ECH 8753	MAC	CRD	HO
7	12/20/94	FOR NDR-0433	HAS	GLS	JPH



- NOTES:**
- ALL AIR QUANTITIES (CFM) ARE FOR 2000 FEET ALTITUDE ABOVE SEA LEVEL.
 - SEE PLEAS 906E-458 SHEETS 2 THRU 7 FOR LINE NUMBERS, LEAFER NUMBERS, VOL. DAMPER NUMBERS, ETC.
 - BARING ENTRY TO CONDENSING UNIT PIT. EXTRACTION OCCURS DUE TO A TEMPORARY CONSTRUCTION. DRAWING NEGATIVE ON PIT INTD PIT, APPROXIMATELY 30 CFM EACH PENETRATION.

REFERENCE DRAWINGS:

SYMBOLS & LEGEND	906D-400
VF-01-14 BUILDING HVAC SCHEDULED DIAGRAM	906D-401
VF HELTER EX-CELL DG SYSTEM PLUS ANALYZER#1	906D-015
VF HELTER EX-CELL DG SYSTEM PLUS INSTRUMENT AIR SYS	906D-016
VF-01-14 BUILDING HVAC P & I B	906D-016 SH 2-8
VF-01-14 BUILDING HVAC PLANS	906D-430 THRU 436
VF-01-14 BUILDING HVAC SCHEDULE	906D-411 THRU 414

ANSTEC APERTURE CARD

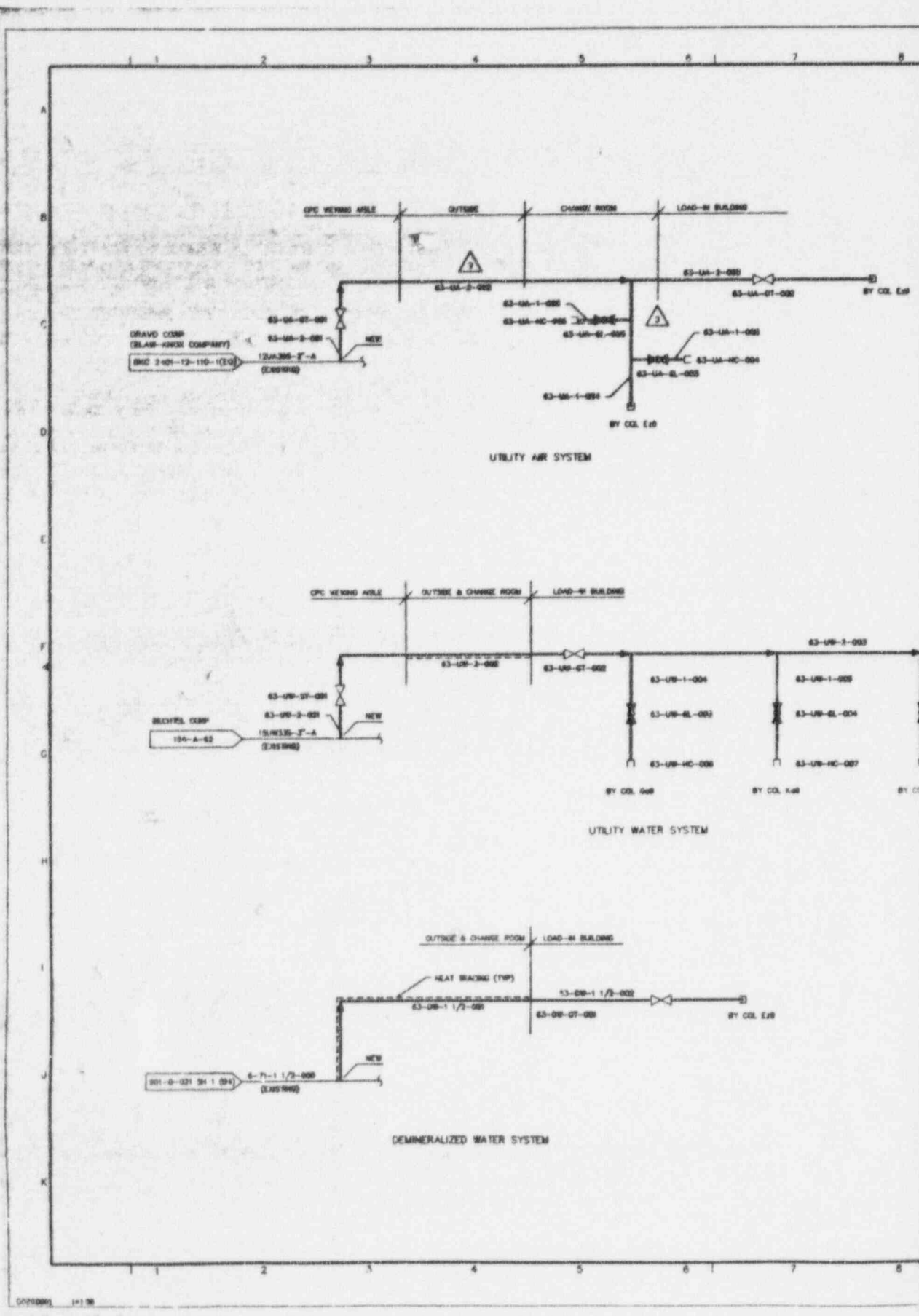
Also Available on Aperture Card

FOR DRAWING INDEX SEE DRAWING NO.

APPROVED WORKS CO.	EBASCO SERVICES INCORPORATED
PROJECT NO. F. J. E. STOREY	A/E O.P.S. NO. 2348
ENGINEER SLIPY	WEST VALLEY NUCLEAR SERVICES COMPANY INC.
DESIGNER	WEST VALLEY DEMONSTRATION PROJECT
CHECKED	VF
DATE	01-14 BUILDING
SCALE	HVAC AIR FLOW DIAGRAM
DRAWING NO.	906D-018
DATE	12
SCALE	906-D-018

CAD DRAWING - DO NOT REVISE THIS ORIGINAL

9602210422-33



NO	DATE	REVISION	BY	CHK	APPROVED
B	06-02-84		LP	KA	RA F/A
GENERAL REVISION					
C	07-25-84			RA	DA RA F/A
GENERAL REVISION PER DESIGN REVIEW COMMENTS					
D	12-20-84	ED 2084			JRH
E	1/10/85	REVISED PER EDN 8970	AAJ		
F	9/29/85	REVISED PER EDN 9284	SAB	HAB	
G	11/1/85	REVISED PER FOR 90-1230	RAG	KQ	

ANSTEC APERTURE CARD

Also Available on
Aperture Card

REFERENCE DRAWINGS:

950-D-1300 REV.6	SYMBOLS, NOTES AND LEGENDS
950-D-1307 REV.4	SYMBOLS, NOTES AND LEGENDS
950-D-1308 REV.6	SYMBOLS, NOTES AND LEGENDS
907-D-001	P & I D. WT. FAC. LOAD-IN BLDG. FIRE PROTECTION
907-D-002	P & I D. WT. FAC. LOAD-IN BLDG. SW & COND. SYS.
907-D-003	P & I D. WT. FAC. LOAD-IN BLDG. DRAINAGE SYSTEMS
907-D-301 (R) 37	LOAD-IN FACILITY C.W.D. HEAT TRACING
2401-10-110-1	BASE CATCH BASIN FLOW DIAGRAM (BLAB-KNOX)
901-D-021 SH 1	P & I D. LOW LEVEL LIQUID WASTE TREATMENT SYSTEM 30004
905-D-024	P & I D. COLD CHEMICAL SYSTEM FIRE PROTECTION

NOTES:

- ALL STEAM AND COND. LINES TO BE SLOPED A MINIMUM OF 1/16" PER FOOT.
- ALL STORM WATER DRAINAGE PIPING SHALL PITCH 1/8" PER FOOT U.O.N.

W/NS APPROVAL

DES. MGR.	J. E. COFFMAN
DES. ENGR.	J. E. SCHNYDER
DRY. SUPV.	KIM HERTON 12/30/84
QA. MGR.	D. L. SHAPIRO
QS. ENGR. MGR.	J. E. COFFMAN

FOR DRAWING INDEX SEE DRAWING NO.

APPROV. BY	PROJECT MGR.	ENGINEER SUPV.	LEAD TECH ENGR.	REVISION	CHECKED	DRAWN	DATE	SCALE	DATE	PRELIM. REV.
	5/21/84	5/21/84	5/21/84	5/21/84	5/21/84	L. HANNOCK	4/2/84	1/4" = 1'-0"	07-25-84	PH
<p>FOR DRAWING INDEX SEE DRAWING NO.</p> <p>WEST VALLEY NUCLEAR SERVICES COMPANY, INC. WEST VALLEY, NEW YORK</p> <p>WEST VALLEY DEMONSTRATION PROJECT</p> <p>P & ID WT FACILITY LOAD-IN BLDG UA, UW, & DW SYSTEMS</p> <p>DRAWING NO. 907-D-020 3</p> <p>SCALE 1/4" = 1'-0"</p> <p>DATE 07-25-84</p> <p>PRELIM. REV. PH</p>										

9602210422 - 34

SPECIAL LIST: 1281L003 - General Arrangements

REVISIONS CURRENT AS OF: 12-18-95 9.07 am

Attachment C

DRAWING NBR	SHSET	REV	TITLE
900-D-2860	001	001	SMS UTILITIES TO PUMP/DIST. PITS GENERAL ARRANGEMENT
904-D-060	001	006	SMS HLW TRANSFER PIPING
904-D-060	002	005	SMS HLW TRANSFER PIPING
904-D-060	003	005	SMS HLW TRANSFER PIPING
904-D-060	004	007	SMS HLW TRANSFER PIPING
904-D-060	005	017	SMS HLW TRANSFER PIPING
905-D-030	001	012	GENERAL ARRANGEMENT VITRIFICATION FACILITY PLAN EL 100'
905-D-030	002	000	VF GENERAL ARRANGEMENT FUEL OIL STORAGE
905-D-031	001	001	GENERAL ARRANGEMENT VITRIFICATION FACILITY EDR, CPC PLAN EL 100'
905-D-032	001	008	GENERAL ARRANGEMENT VITRIFICATION FACILITY PLAN EL 110.25'
905-D-032	002	003	VF CONTROL ROOM GENERAL ARRANGEMENT
905-D-033	001	001	GENERAL ARRANGEMENT VITRIFICATION FACILITY EDR CPC PLAN EL 117'
905-D-034	001	008	GENERAL ARRANGEMENT VITRIFICATION FACILITY PLAN EL 124' & ABOVE
905-D-038	001	006	GENERAL ARRANGEMENT VITRIFICATION FACILITY SECTIONS
905-D-040	001	002	GENERAL ARRANGEMENT VITRIFICATION FACILITY PLAN EL 146.25' & ROOF
906-D-030	001	011	VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING 98'
906-D-030	002	001	VF GENERAL ARRANGEMENT NOX TRENCH
906-D-030	003	005	VF GENERAL ARRANGEMENTS 01/14 BUILDING PLAN EL 98'
906-D-031	001	008	VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING 116.59'
906-D-032	001	007	VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING 130'
906-D-033	001	006	VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING 144'
906-D-034	001	006	VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING SECTION
906-D-035	001	009	VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING SECTION
906-D-036	001	004	VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING PLAN EL 158' ROOF PLAN
906-D-037	001	009	VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING PLAN EL 124'

SPECIAL LIST: 1281L003 - General Arrangements

REVISIONS CURRENT AS OF: 12-18-95 9.07 am

DRAWING NBR	SHEET	REV	TITLE
906-D-038	001	008	VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING SECTION
907-D-030	001	001	VF LOAD-IN BLDG GENERAL ARRANGEMENT PLAN EL 100'
907-D-031	001	002	VF LOAD-IN BLDG GENERAL ARRANGEMENT PLAN EL 112'
907-D-032	001	001	VF LOAD-IN BLDG GENERAL ARRANGEMENT PLAN EL 125'
907-D-033	001	002	VF LOAD-IN BLDG GENERAL ARRANGEMENT SECTIONS

Total number of Drawings in this report 30

***** END OF REPORT *****

3 NUMBER

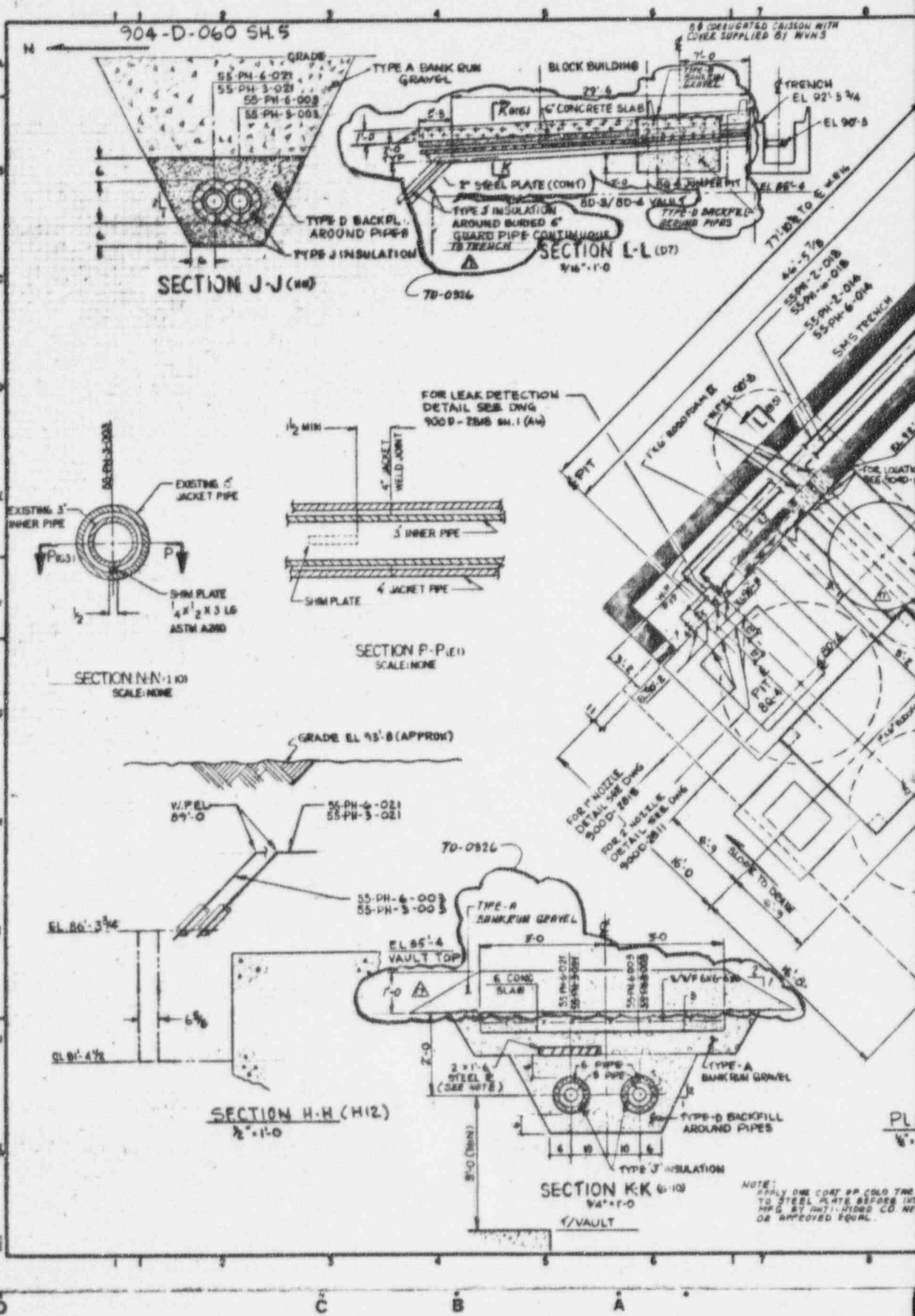
DRAWING NUMBER

DRAWING NUMBER

PL. FIELD COOPERATIVE - FINE CALIFORNIA

PL. FIELD COOPERATIVE - FINE CALIFORNIA

PL. FIELD COOPERATIVE - FINE CALIFORNIA

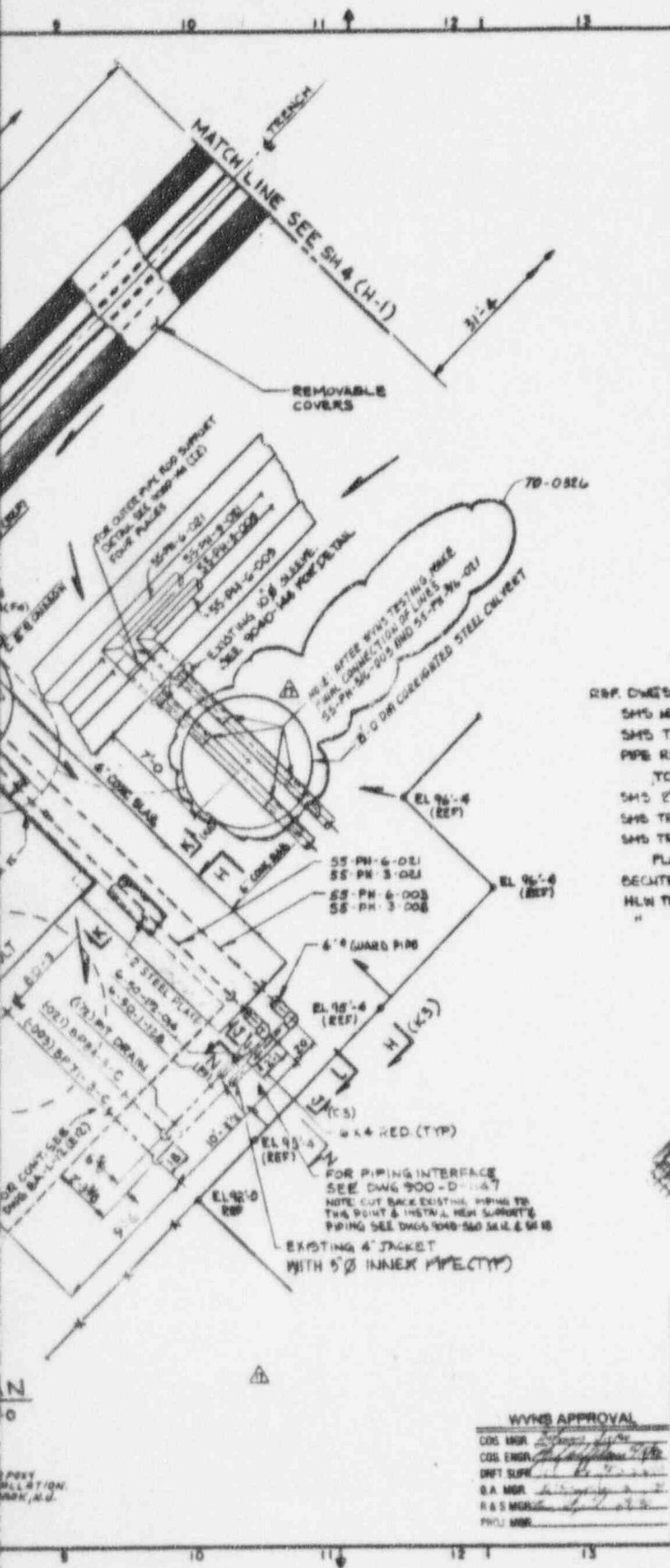


DRAWING NUMBER
904D-060

SM-5

DRAWING NUMBER

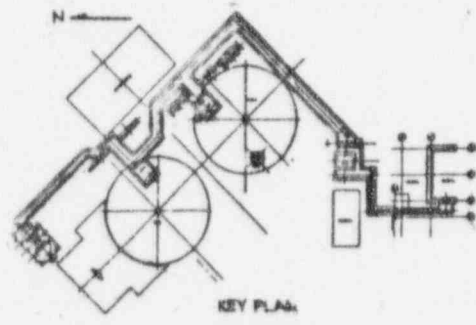
DRAWING



REV NO	DATE	REVISION	DR	CH	APPROVED
B	4/11/90	GENERAL REVISION	PLP	MT	APL
C	4/11/90	GENERAL REVISION	APL	REL	APL
D	6/8/90	REV/BTA			
1	4/29/90	REV PER ECH 3742	CGR	HAS	JAM
2	10-15-90	REV PER ECH 3930	GW	HAS	JAM
3	11/9/90	REV PER ECH 4022	KVA	HAS	JAM
4	5-4-92	GEN REV PER ECH 4631	PD	JD	JAM
5	6-1-92	REV PER ECH 5152	PKL	ONS	JAM
6	8-10-92	REV/FCH VF 28-0063	PD	JD	JAM
7	4-27-93	GEN REV PER ECH 6059	PD	JD	JAM
8	6-18-93	REV/FCH VF 28-0981	PD	JD	JAM
9	7-8-93	REV/FCH VF 28-0980	PD	JD	JAM
10	9-27-93	REV/ECH 6647A	PD	JD	JAM
11	1-12-94	REV/FCH VF 28-1494	AAJ	JD	JAM
12	5-24-94	REV/FCH VF 28-1142	DJM	APL	JAM
13	6-21-94	REV/FCH VF 28-232	ML	JD	JAM
14	7-9-94	REV/FCH VF 28-2401	PD	HA	JAM
15	9-14-94	REV PER ECH 2402	GW	JA	JAM
16	11-21-94	REV/FCH VF 28-1561	PD	JD	JAM
17	11-1-95	REV/ECH 7907	PH	JD	JAM

NOTES:
FOR GENERAL NOTES & REFERENCE DRAWINGS SEE 904D-060 SM-1
DENOTES DIRECTION OF SLOPE AT FINISHED GRADE. L.L.E.'S DENOTES TOP OF SLOPE AT FINISHED GRADE.

- REF. DWGS.:
- SM'S HLW TRANSFER PIPING 904D-060 SM 4
 - SM'S TRENCH PLAN & SECT'S. SM 4 904D-144
 - PIPE ROUTING & HEBCH. DET FROM VALVE ANGLE 9000-1147 SEE TO 8D-3
 - SM'S 2' HORIZ. 1" NOZZLE WALL EMBEDMENT 9000-2811
 - SM'S TRANSFER PIT SQ-4 1" WALL NOZZLE EMBED. 9000-2819
 - SM'S TRANSFER LINES LEAK DETECTION PIPING 9000-2816
- PLANS & SECTIONS
- DECONT. CON-BO WASTE STORAGE TANKS 8A-L-12
 - HLW TRANSFER PROCESS PIPING SUPPORT LOCATIONS 904B-560 SM 2
 - " " " " " " 904D-560 SM 5



WVNS APPROVAL

CDL MGR. [Signature]

CDL ENGR. [Signature]

DIST SLIP

S.A. MGR. [Signature]

R & S MGR. [Signature]

PRJL MGR. [Signature]

FOR DRAWING INDEX SEE DRAWING NO.

PROJECT NO.	904D-060	DATE	9/1/90
DESIGNER	AVIRGO	CHECKED	AVIRGO
DRAWN	AVIRGO	DATE	9/1/90
SCALE	AS SHOWN	PROJECT NO.	904D-060
ISSUED FOR CONSTRUCTION	DATE	PROJECT NO.	904D-060

EBASCO SERVICES INCORPORATED
645 S.P.O. RD. 130E TOWN CENTER C19

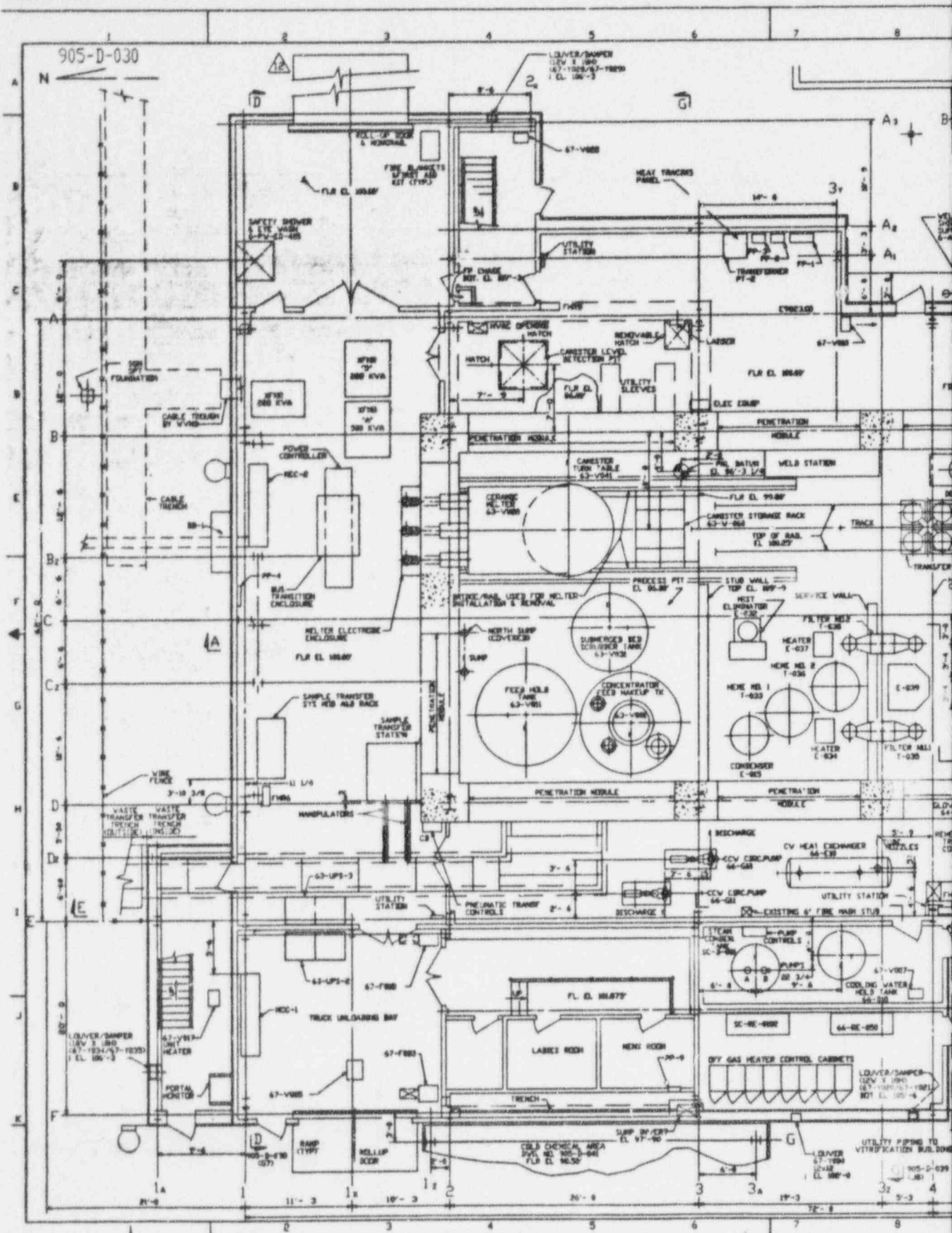
WEST VALLEY NUCLEAR SERVICES COMPANY, INC.
WEST VALLEY, NEW YORK

WEST VALLEY DEMONSTRATION PROJECT
SLUDGE MOBILIZATION SYSTEM
HLW TRANSFER PIPING

904D-060/17

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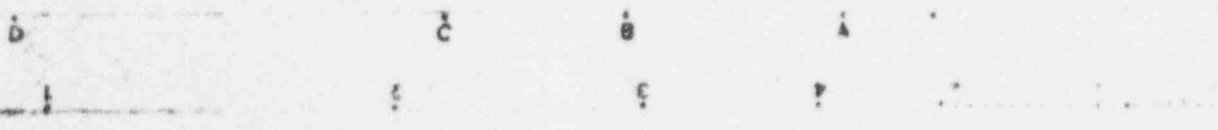
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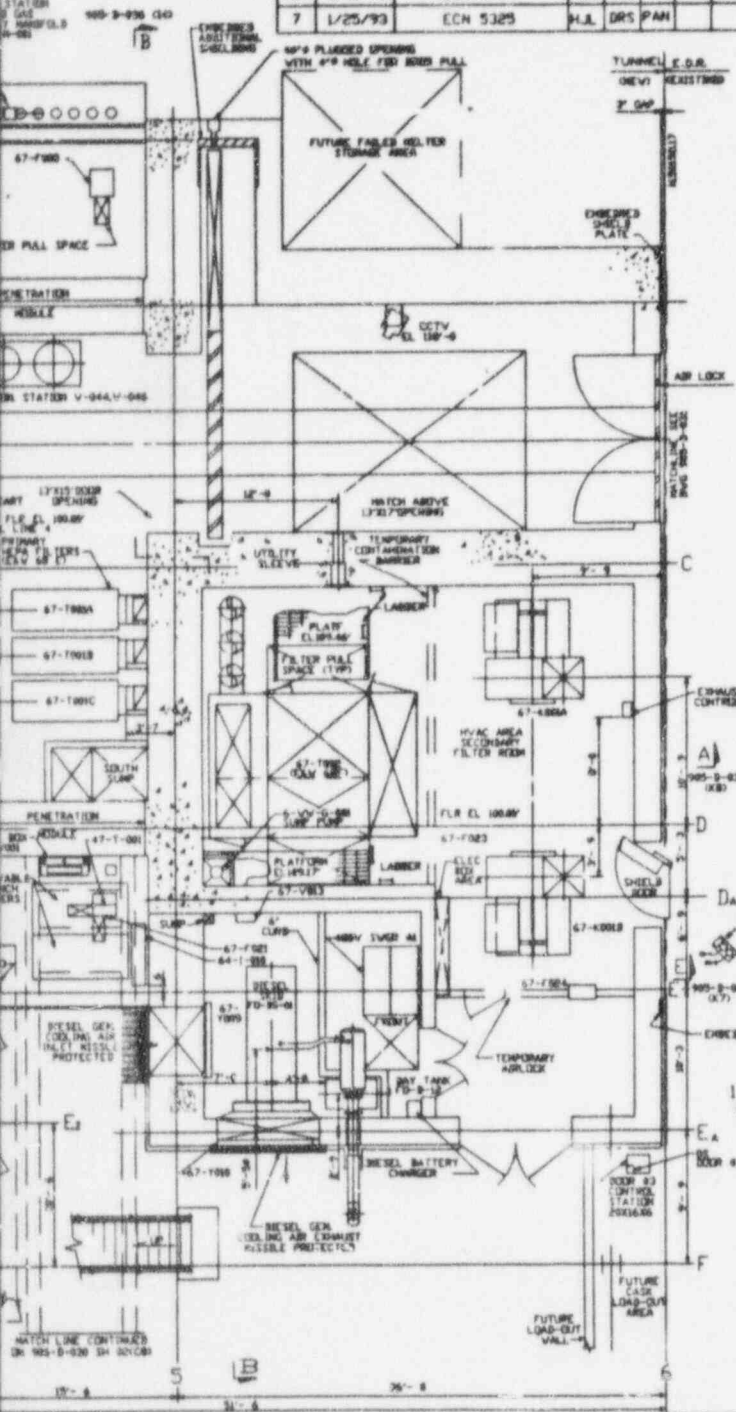
905-D-030



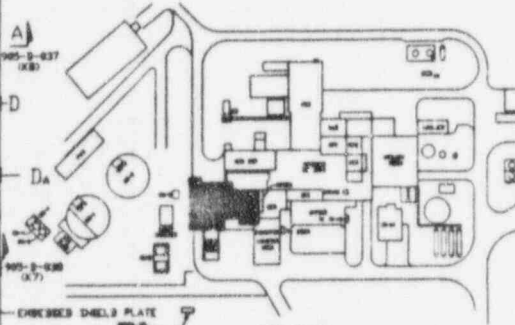
SCALE 1/8"=1'-0"



NO.	DATE	REVISION	DR	CH	APPROVED	NO.	DATE	REVISION	DR	CH	APPROVED
G	11-20-93	GENERAL REVISION	A.B.	SE	R.A. F.S. F.A.S.	F	11-11-93	GENERAL REVISION	R.A.	F.S.	F.A.S.
H	7-13-93	ER 1646		JRH		C	94-21-97	GENERAL REVISION PER EBAR 851A DATED 3-19-97	T.R.	T.R.	F.S.
I	9/03/93	ECN 6468	J.H.	HAB	BNE			GENERAL REVISION PER TA-612	T.R.	S.E.	F.S.
J	11/08/93	ECN 6788	J.H.	HAB	D.J.R.			GENERAL REVISION PER TA-688 & 724			
K	12/17/93	ECN 7122 & 7357	BP	KG	RMB	DLG		GENERAL REVISION PER EBAR NO. 1147			
L	3/25/94	ECN 7652	V.J.C.	HAB	PAN						
M	10/23/95	FCN TM-1352	AAJ		KC						
N	1/13/93	ECN 5798	H.L.	DRS	SP						
O	1/25/93	ECN 5325	H.L.	DRS	PAN						



NOTES
 1. FOR NOTES, LEGEND AND REFERENCE DRAWINGS SEE 905-D-032
 2. FOR CELL INTERIOR SEE DRAWING PNL-240-01 THRU-20 AND PNL-500-01, 02, 03.



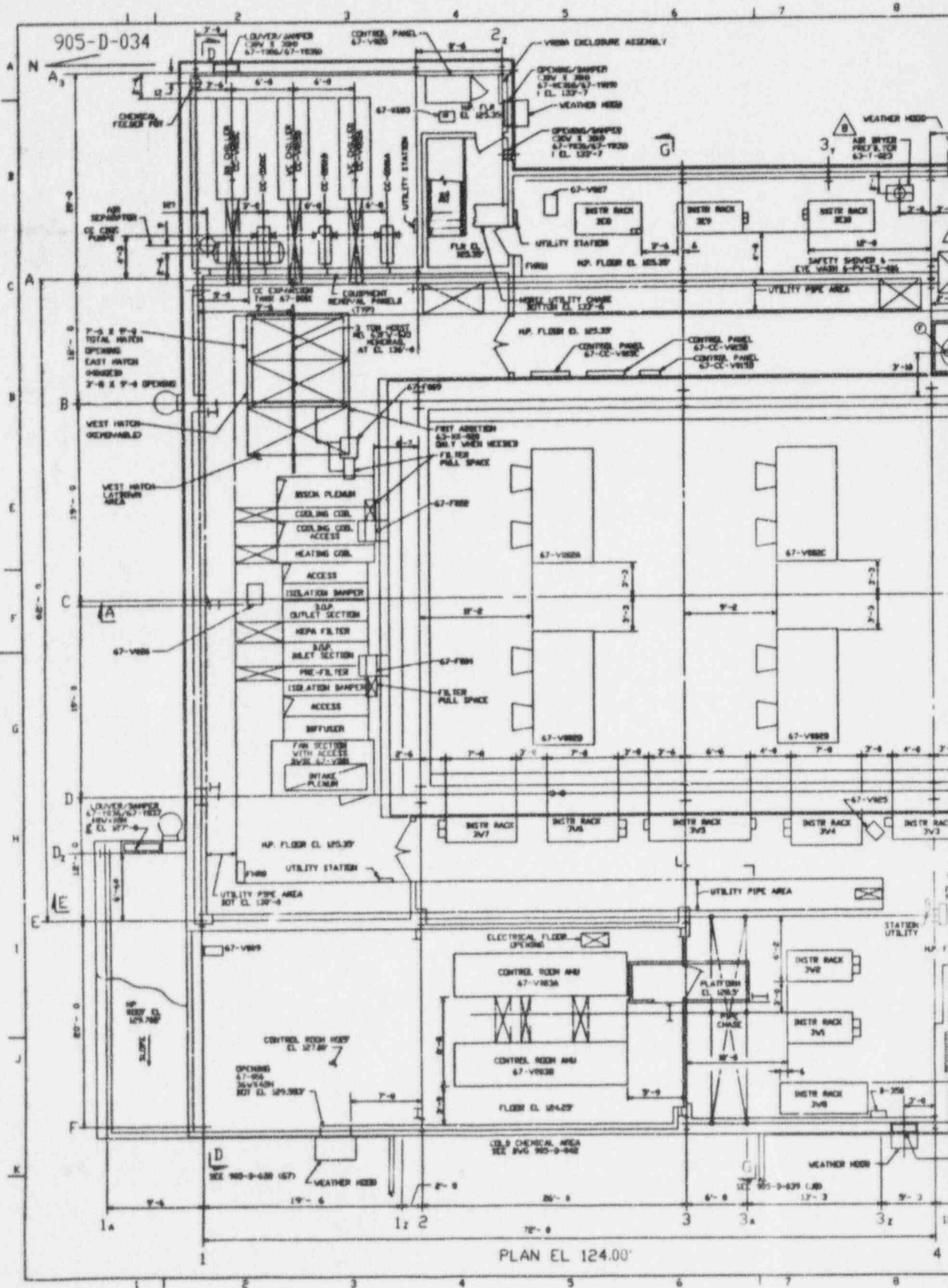
1 0 4 8 12 16 20 FT 3/16"=1'-0"

FOR DRAWING INDEX SEE DRAWING NO.		APPROVED VVMS CD	
PROJECT NO. 905-D-030		EBCSD SERVICES INCORPORATED	
ENGINEER DWP F.KOWALCZYK 90-01-95		A/E D.F.S. NO. 2300 TASK ORDER 002	
LEAD DISC ENGR F.KOWALCZYK 90-01-95		WEST VALLEY NUCLEAR SERVICES COMPANY, INC.	
DESIGN R.J.LEWKO 90-01-95		WEST VALLEY, NEW YORK	
CHECKED T.J.PIAZZA 90-01-95		WEST VALLEY DEMONSTRATION PROJECT	
DRAWN R.J.LEWKO 90-01-95		GENERAL ARRANGEMENT	
DE-AC07-BINE44139		VITRIFICATION FACILITY	
PROJECT NO. 905-D-030		PLAN EL. 100.00'	
SUBCONTRACT NO. 905-D-030		SCALE 3/16"=1'-0"	
ISSUES FOR CONSTRUCTION		DRAWING NO. 905-D-030 12	
REV. 1		DATE 905-D-030	

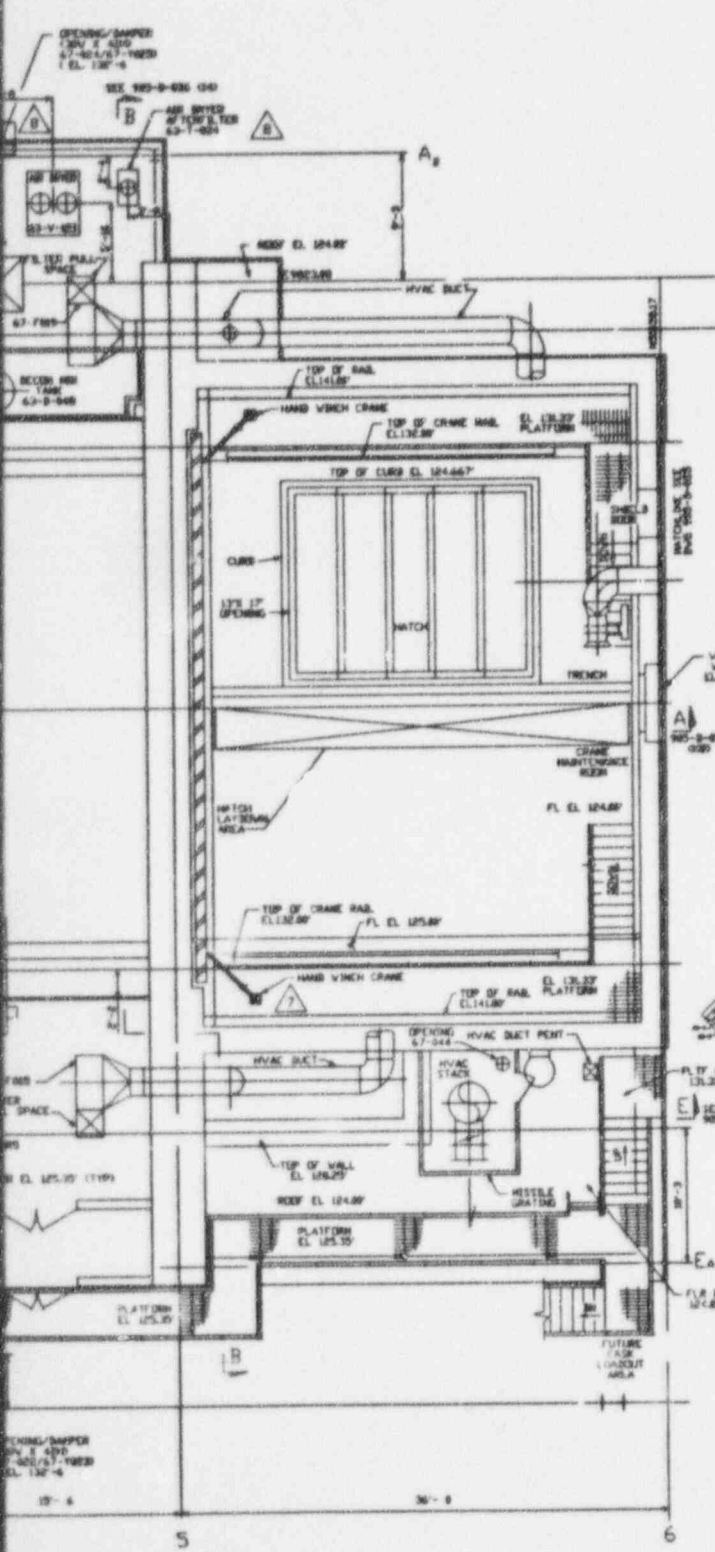
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9602210422-36

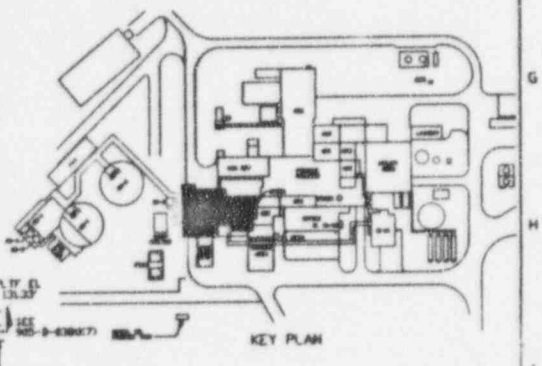
905-D-034



NO.	DATE	REVISION	DR	CH	APPROVED	NO.	DATE	REVISION	DR	CH	APPROVED
B	11-11-66										
GENERAL REVISION											
C	04-21-67										
GENERAL REVISION PER EBAR 051A DATED 3-19-67.											
D	11-04-67										
GENERAL REVISION PER TA-612											
E	04-25-68										
GENERAL REVISION PER TA-600 & 724.											
F	11-03-68										
GENERAL REVISION PER EBAR NO. 1147											
G	02-20-69										
GENERAL REVISION											
H	07-13-69	ER 1646									
I	03/26/70	ECN 8779									
J	11/6/70	ECN 9374									
K	9/28/70	ECN 9528									
L	4/5/71	ECN 5196									
M	2/8/71	ECN 7253									
N	10/27/71	ECN 7645									



NOTES
 1. FOR NOTES, LEGEND AND REFERENCE DRAWINGS SEE 905-D-032.



1 0 4 8 12 16 20 FT 3/16"=1'-0"

FOR DRAWING INDEX SEE DRAWING NO.		E BASCO SERVICES INCORPORATED	
APPROV'D BY	WVJ	A/E O.F.S. NO. 2308	TASK ORDER NO. 002
PROJECT NO.	19-CVY-002PS	WEST VALLEY NUCLEAR SERVICES COMPANY INC.	
ENGINEER SUPV.	P. KOVALCZYK	WEST VALLEY, NEW YORK	
LEAD DES. ENGR.	P. KOVALCZYK	WEST VALLEY DEMONSTRATION PROJECT	
DESIGNER	W. J. LEWKO	GENERAL ARRANGEMENT	
CHECKER	J. PIAZZA	VITRIFICATION FACILITY	
DRAWN BY	W. J. LEWKO	PLAN EL. 124.00' AND ABOVE	
BY ACCT. 818E413P		SCALE	3/16"=1'-0"
PROJECT NO.	19-CVY-002PS	DRAWING NO.	905-D-034 8
CONTRACT NO.		DATE	11-11-66
ISSUES FOR CONSTRUCTION		SCALE	3/16"=1'-0"

ANISTEC
 APERTURE
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 Aperture Card

9602210422 - 37

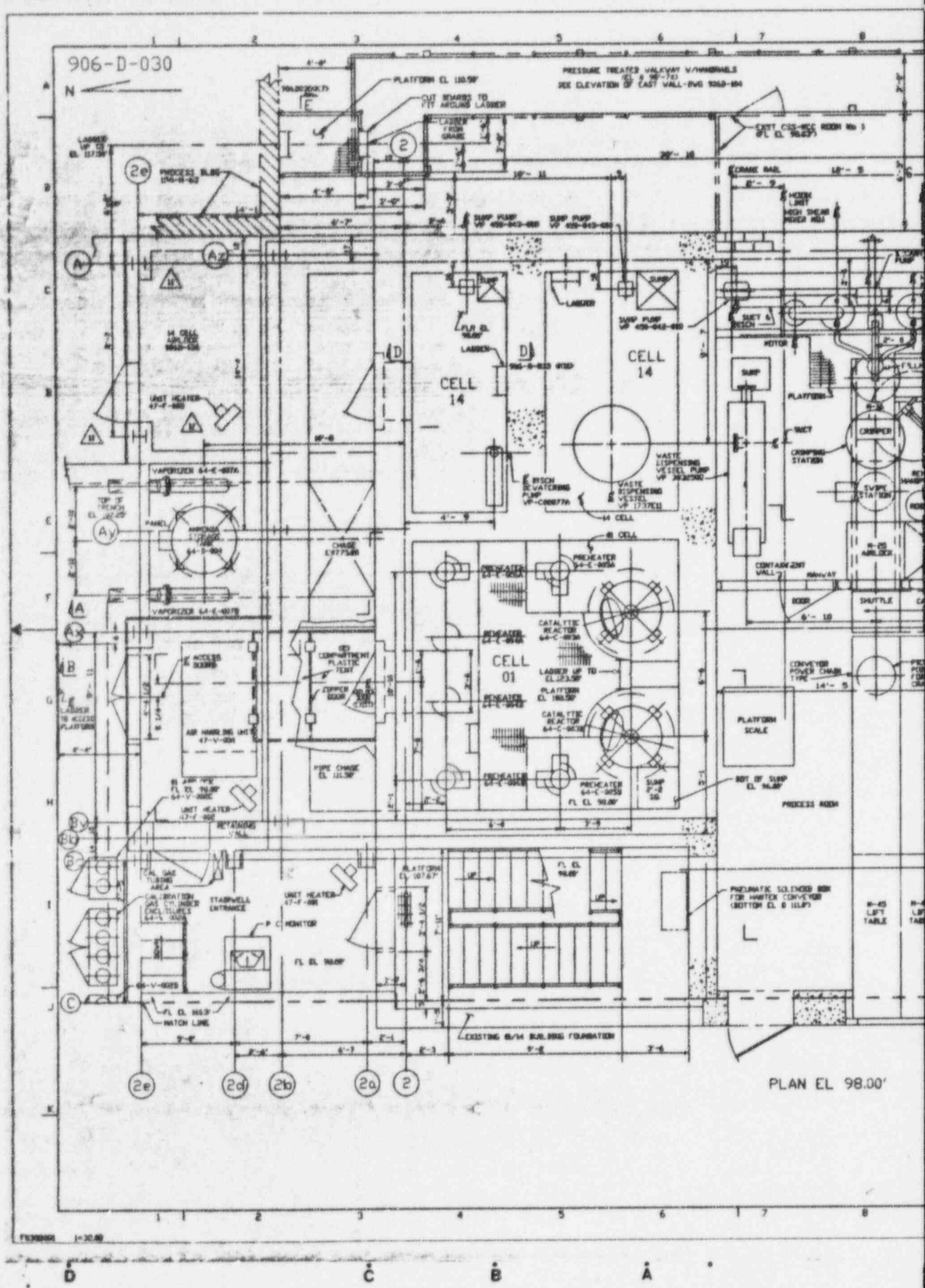
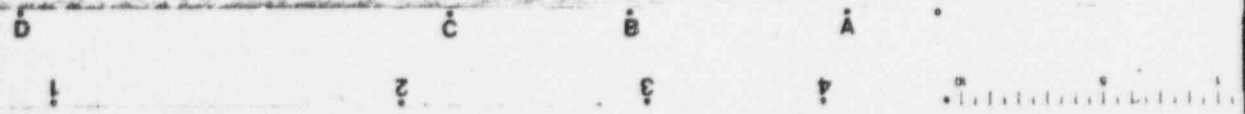
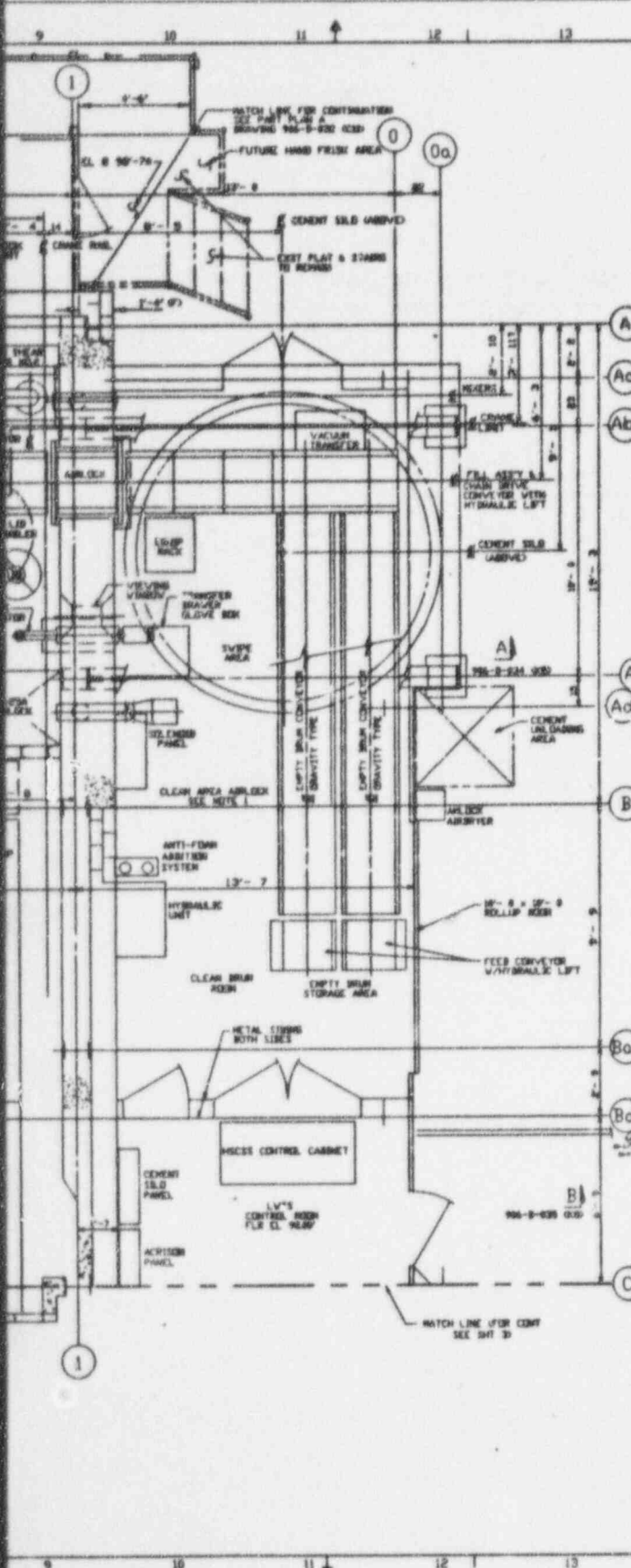


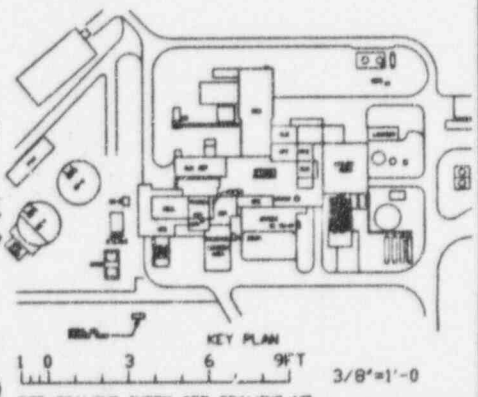
FIGURE 1-30.00





NO.	DATE	REVISION	DR	CH	APPROVED
B	05-07-90	GENERAL REVISION	YB	GRG	R.A. FSK F.J.S.
C	10-07-90	GENERAL REVISION	YB	JBL	R.A. FSK F.J.S.
D	9-24-91	ER 2193			JRD
E	04/12/94	ECN 7615		BP	DRS JPK
F	08/23/94	ECN 7932		H.A.	ARA JPK
G	11/09/94	FCN NEX-0078		HAB	GLS MAJ
H	5/22/95	ECN 8987		H.A.	DRS
I	11/20/95	ECN 9422		JAS	AVG JRS
J	07-19-93	GEN REV/ECN 6524	VCK	DRS	SP

- NOTES**
- THESE GENERAL ARRANGEMENTS 906-D-030 THRU 035 SUPERSEDE EBASCO GENERAL ARRANGEMENTS 902-D-033 THRU 038 IN THEIR ENTIRETY.
- REFERENCE DRAWINGS**
- GENERAL ARRANGEMENT-01/14 BUILDING PLAN EL 116.50' 906-D-031
 - GENERAL ARRANGEMENT-01/14 BUILDING PLAN EL 130.00' & SECTIONS 906-D-032
 - GENERAL ARRANGEMENT-01/14 BUILDING PLAN EL 144.00' & SECTIONS 906-D-033
 - GENERAL ARRANGEMENT-01/14 BUILDING SECTIONS 906-D-034
 - GENERAL ARRANGEMENT-01/14 BUILDING SECTIONS 906-D-035
 - CHANGE ROOM EXTENSION ARRGT/FTNS 900-D-037
 - TRUCK LOADOUT EXTENSION ARRGT/FTNS 900-D-038
 - LVTS CONTROL ROOM EXTENSION ARRGT'S 900D-1300
 - 01/14 BLDG EXISTING FOUNDATIONS 900D-1479
 - 18\"/>



FOR DRAWING INDEX SEE DRAWING NO.

APPROVED BY	DATE	PROJECT NO.	DATE
DESIGNED BY	DATE	ENGINEER SUPV	DATE
CHECKED BY	DATE	LEAD DESK ENGR	DATE
DRAWN BY	DATE	PROJECT NO.	DATE
PROJECT NO.	DATE	PROJECT NO.	DATE
PROJECT NO.	DATE	PROJECT NO.	DATE
PROJECT NO.	DATE	PROJECT NO.	DATE

WEST VALLEY NUCLEAR SERVICES COMPANY INC. WEST VALLEY, NEW YORK

WEST VALLEY DEMONSTRATION PROJECT VITRIFICATION FACILITY

GENERAL ARRANGEMENT 01/14 BUILDING PLAN EL 98.00'

SCALE: 3/8"=1'-0"

PLAT 14-32

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